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UNIVERSITY OF ALBERTA

# folio

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## Researchers find genetic response to global warming

*Changing climate prompts genetic change in squirrels*

By Phoebe Dey

A University of Alberta biologist and his research team have discovered that North American red squirrels are changing their genetic make-up to cope with global warming. It is the first time scientists have been able to demonstrate a genetic response in an animal species to warmer conditions.

Until now, biologists have only been able to show some animals demonstrate flexibility, or plasticity, in adapting to changes in their surroundings from year to year. But Boutin's findings show the red squirrel evolving genetically, from generation to generation, to cope with environmental forces.

Dr. Stan Boutin of the U of A Department of Biological Sciences has been studying a population of the squirrels in the southwest Yukon for almost 15 years. The squirrels, faced with increasingly warm spring temperatures and a corresponding increase in the amount of food available, have advanced the timing of breeding by 18 days over the last 10 years.

Plasticity is measured by how an individual squirrel changes the timing of reproduction from one year to the next, compared to one generation to the next – which is the genetic response Boutin is studying.

Boutin's findings appear on a Web site called *First Cite* and will appear next month in the biology journal *Proceedings*

"These animals might be at the limit of their adaptability skills. If climate change continues at this very quick pace, there is a possibility the animal will become more and more precarious and unable to keep up with change. The worst-case scenario is the extinction of the species."

– Dr. Stan Boutin



Tamie Hucal

A team of researchers led by Dr. Stan Boutin has discovered that red squirrels, like the one shown here holding a pup, have been altered genetically in adapting to climate change.

of the *Royal Society of London B*.

To come up with their results, Boutin and his colleagues have closely monitored generations of squirrels in Kluane National Park, fitting the pups with ear tags and observing them from February until September. The researchers know each individual squirrel and who it is related to.

Using that information, the team employed an approach called quantitative genetics, long used in livestock breeding but rarely applied to a wild species. Through analytical modeling, the researchers were able to sort out how much of the squirrels' adaptation is due to genetics.

"This has never been done before. Other researchers have stopped at plastic-

ity," said Boutin.

"Having those two pieces to the puzzle helps us solve whether it's a genetic difference or plasticity, and we found, yes, some of these changes are genetic," he added. "Only by having long-term lineages can we get at this research."

Although the discovery shows the red squirrel adapting well to its warmer environment, its future is still a concern to scientists, especially considering the rapid rate of climate change. Predicting the squirrel's threshold for change is also impossible, said Boutin, so it is difficult to know if the animal has reached its peak of "adaptation skills."

"These animals might be at the limit of their adaptability skills. If climate

change continues at this very quick pace, there is a possibility the animal will become more and more precarious and unable to keep up with change," he said. "The worst-case scenario is the extinction of the species."

The next step is to look at different components of the genome to see if researchers can pinpoint more closely the set of genes responsible for these changes.

Other authors on the paper are Dr. Andrew McAdam from the University of Alberta, Dr. Denis Réale, from McGill University, and Dr. Dominique Berteaux from the Université du Québec. Research was supported by the Natural Sciences and Engineering Research Council of Canada. ■



# A front-row seat at the main event

**Jonathan Schaeffer oversees historic Kasparov chess match**

By Richard Cairney

Jonathan Schaeffer had made up his mind, and that was final: he wasn't going to New York to work as a referee in one of the greatest chess matches of all time. Still, the organizers were relentless.

"I told them a few times that I couldn't go," said Schaeffer, one of about 100 chess grand masters in Canada, who holds a Canada Research Chair in artificial intelligence at the U of A.

It's understandable why the organizers were so interested in Schaeffer. During the 1980s Schaeffer developed what was then considered one of the world's best chess programs, called Phoenix. When IBM's Deep Blue computer appeared certain to topple his own program and perhaps defeat Kasparov (which it did, in a non-

sanctioned 1997 match), Schaeffer changed his focus to checkers. The move paid off – his program won the world's first machine-vs.-human world title, winning the title from then-reigning checkers champ Marion Tinsley in 1994.

With that background, Schaeffer seemed a natural choice for the job. But he was busy. He had classes to teach. And, he admits, he was worried. What if he made an unpopular ruling? "I've adjudicated things at the local tournament level and stuff, but to be asked to go to a tournament with the greatest player in the world and maybe make a decision that would make a lot of people unhappy... but they twisted my arm, and twisted my arm, and twisted my arm. I'm glad I went."

The assignment gave Schaeffer a front-row seat at an historic event. Kasparov had been humiliated by his loss to IBM's Deep Blue, which was capable of analyzing 200 million moves per second. Deep Junior, developed by Israeli programmers Amir Baran and Shay Bushinsky, beat 18 other computers in the July, 2002, world championships of chess-playing super-computers. It is capable of calculating three million moves per second.

Kasparov is capable of calculating a paltry one or two moves per second.

Schaeffer says Kasparov's talent is the perfect illustration of human supercomputing. Chess depends on two elements: search and knowledge. The computer's strength is search; the human's is knowledge.

"Search is simple to explain – it evaluates space," said Schaeffer. "Knowledge is an understanding of the game, and Kasparov has a lot more knowledge about chess. Humans are very good with knowledge."

Computers are better equipped to evaluate possible results of a move by determining an opponent's reply to a move, the computer's own best response, and the player's subsequent reply. The computer, Schaeffer says, is considering scenarios about "10 or 12 moves deep," making them efficient players.

"Kasparov knows the computer is looking far ahead and he knows that if he makes a mistake the computer is going to pounce."



Jonathan Schaeffer refereed the chess match between Garry Kasparov and Deep Junior.

In spite of its capabilities, the computer worried its programmers at one point. In an effort to confuse Deep Junior, Kasparov employed an unorthodox strategy. Once, he moved his king twice in three moves. Following one such measure Deep Junior paused to consider its options. Twenty-five minutes passed. Deep Junior appeared to have blacked out. Its programmers considered rebooting the computer before one of them shook the mouse to discover the problem was that Deep Junior's screen saver had been activated.

But the computer impressed onlookers with a style of play that Schaeffer described as "human-like," avoiding the "ugly" moves that often characterize computer chess.

"There were only a handful of times that you could tell which player was Kasparov and which player was Deep Junior," he said.

Kasparov, the world's No. 1-ranked chess player since 1984, won the world championship in 1985, losing it for the first

time last year. He has a style of his own. When Kasparov is certain he has won a game and victory is imminent, he removes his watch and places it on the table next to the board. He shows his emotions clearly.

"He wouldn't be much of a poker player," said Schaeffer. "He's very emotional, and that's one of the reasons he is so popular with the media. I saw him at a time when he was very unhappy. In Game 3 he made a trivial oversight and lost – you could see he was angry with himself."

In the following game Kasparov ultimately offered Deep Junior a draw, which its programmers accepted.

"It was a great result for Kasparov and a great result for the programmers, who didn't have the horsepower of Deep Blue," said Schaeffer, who is obviously glad he accepted the offer to work at the match.

"For me, to be able to be behind the scenes, meet Garry Kasparov and talk to him, and to meet some of the elite of the chess world and to be a part of history – it was thrilling." ■

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## Arts will hold the line on hiring, reduce enrolment

**Entrance requirements will rise, admissions will drop**

By Ryan Smith

The University of Alberta Faculty of Arts has announced plans to roll back enrolment and suspend hiring for new tenure-track academic positions for a two years.

However, in a letter sent recently to all faculty members to explain the situation, Woolf said currently approved searches for new academic staff will continue "with the existing proviso for second searches should the right candidate not appear."

Woolf said that over the next two to three years, undergraduate enrolment in the Faculty of Arts will return to the General Faculties Council agreed target of 5,650 from the current enrolment of 5,911. It is expected this decrease will be achieved by increasing the

minimum entrance requirement from an average grade of 70 to 72 per cent for high school graduates.

**"We simply cannot continue to sustain present teaching levels without new faculty positions... We need more adequate funding for higher education. If this was in place, we would not have to undertake these kinds of painful reductions."**

— Dean of Arts Daniel Woolf

"We simply cannot continue to sustain present teaching levels without new faculty positions," said Woolf. "Therefore, in order to maintain the excellent quality of our undergraduate programs, we need to reduce enrolment. Our first commitment is to a quality education for the students whom we do admit."

"This is a regrettable situation at a time when we still haven't bounced back from the cuts of the 1990s. However, we have strategic

business and academic plans, and will continue to pursue them within our resource constraints. We need more adequate funding for higher education. If this

was in place, we would not have to undertake these kinds of painful reductions."

Arts is not the only U of A faculty facing additional budget cuts. All deans were notified in December that they needed to make a further one-per-cent cut on top of the 4.4-per-cent cuts over four years announced last spring. Each dean is consulting with the Provost and Vice President (Academic) Dr. Doug Owram, to discuss how these cuts will be handled and the impact on their units.

"We face the tightest budget situation since the cuts of the mid-nineties," Owram said. "Government funding has not kept up with rising costs, especially those of utilities."

Owram added that the limited funding combined with sharp enrolment increases have led to this difficult situation. "We have no room for further undergraduate expansion," he said. "Our main goal has to be to ensure that the quality of the degree is maintained." ■



## Balancing priorities

*Proposed budget designed to maintain momentum*

By Richard Cairney

A little over a year ago the University of Alberta was facing some stark economic facts: funding from the provincial government wasn't keeping pace with expenses, utility rates were going through the roof, and a global economic rut had dramatically reduced investment income. Just to keep up with current activities, without new revenue, meant the university was living beyond its means.

But at the same time, there was much to be proud of: research grants had more than tripled in 10 years, new buildings were going up and more were on the drawing board. The U of A's reputation as one of Canada's strongest research-intensive universities was growing.

With conflicting indicators of success – a robust research environment and growing enrolments on one hand, but an enormous financial challenge on the other – university administrators chose to maintain the momentum built up during recent years rather than return to the slash-and-burn budget cuts of the early 1990s. To preserve that momentum, however, would require a series of deficit budgets and the will to cut spending. So at this time last year the Board of Governors approved a deficit budget and a four-year strategic plan that projected deficits for three successive years.

"We asked the board last year to take a calculated risk," said Provost and Vice President (Academic) Dr. Doug Oram. The board was asked to solve the problem in a more measured way, instead of panicking and cutting back in important areas.

If all of the cuts were made at once, Oram says, "it would mean shutting down all hiring, it would have a real impact on morale, it would start to drive people away."

Now, one year into the four-year plan, the U of A is preparing a budget that focuses on teaching and research, aims for \$7 million in new revenue and includes efforts to control the rise in benefits costs.

It also allows for capital spending of \$143 million in new buildings and upgrades, creating a paradox: while budgets are being cut across campus, new buildings are going up.

"That's the way the money comes in," said Oram. "The big characteristic of the last 10-12 years is that we've gone from having a budget driven primarily by provincial

grants in a core operating budget – in other words, money we can use any way we want, to a budget that is made up of dozens and dozens of different envelopes – and the money has come much more to the research side than it used to."

That tremendous research growth creates what Oram called "strange distortions between affluence on one part and poverty on the other."

Some people would argue that spending on research facilities might not be the best use of money. Oram says research funding is an investment in the university's future. The U of A is committed to being one of Canada's premier research universities, and among the world's best, and to stop applying for research funding would mean taking a step away from that goal. And with the enormous increase in research grants, new facilities are a must.

"You can't quadruple your research grants and continue to work in the same space," he said of researchers destined to move into the planned Health Research Innovation Facility (HRIF).

Financial fine-tuning is Phyllis Clark's forte. But what frustrates the Vice President (Finance and Administration) is the fact that there are some things the university can't control, but have a profound impact on its finances. On top of the list is the ever-increasing cost of utilities, which are estimated to rise by 11 per cent this year. The proposed operating budget pegs those costs at \$30 million for 2003-04. Those costs have doubled in just four years. Utilities costs had been stable, varying between \$14 million and \$16 million during the mid-to-late 1990s, but have been escalating at a blistering pace – as any homeowner knows.

"Without those increases we would have a balanced budget," said Clark. In preparing

the budget, Clark said, administrators made sure spending was directed on the university's key strategic initiatives, and the budget proposal reflects that.

"We made strategic choices about what we need to spend money on to make sure we remain a very strong research-intensive university," she said. "The only thing that wasn't a conscious choice was utilities. That is the one budget line that is extremely demanding and extremely frustrating because it is not directly enhancing the quality of education or research."

Clark says the university is doing what it can to control utility costs too. This year's budget includes \$3.5 million in spending to improve energy efficiency, as part of a seven-year, self-sustaining proposal to make the campus more energy efficient.

Other important areas are also being addressed: the Association of Academic Staff: University of Alberta and the Non Academic Staff Association, have both been working with the university to contain the rising costs of benefits packages, and the ongoing efforts of the Funding Solutions Task Force have identified \$14 million in savings and revenues.

The budget also requires the university to come up with an additional \$7 million in revenues this year, and Clark feels that goal will be met. "We've got most of it," she said. "We need about \$3

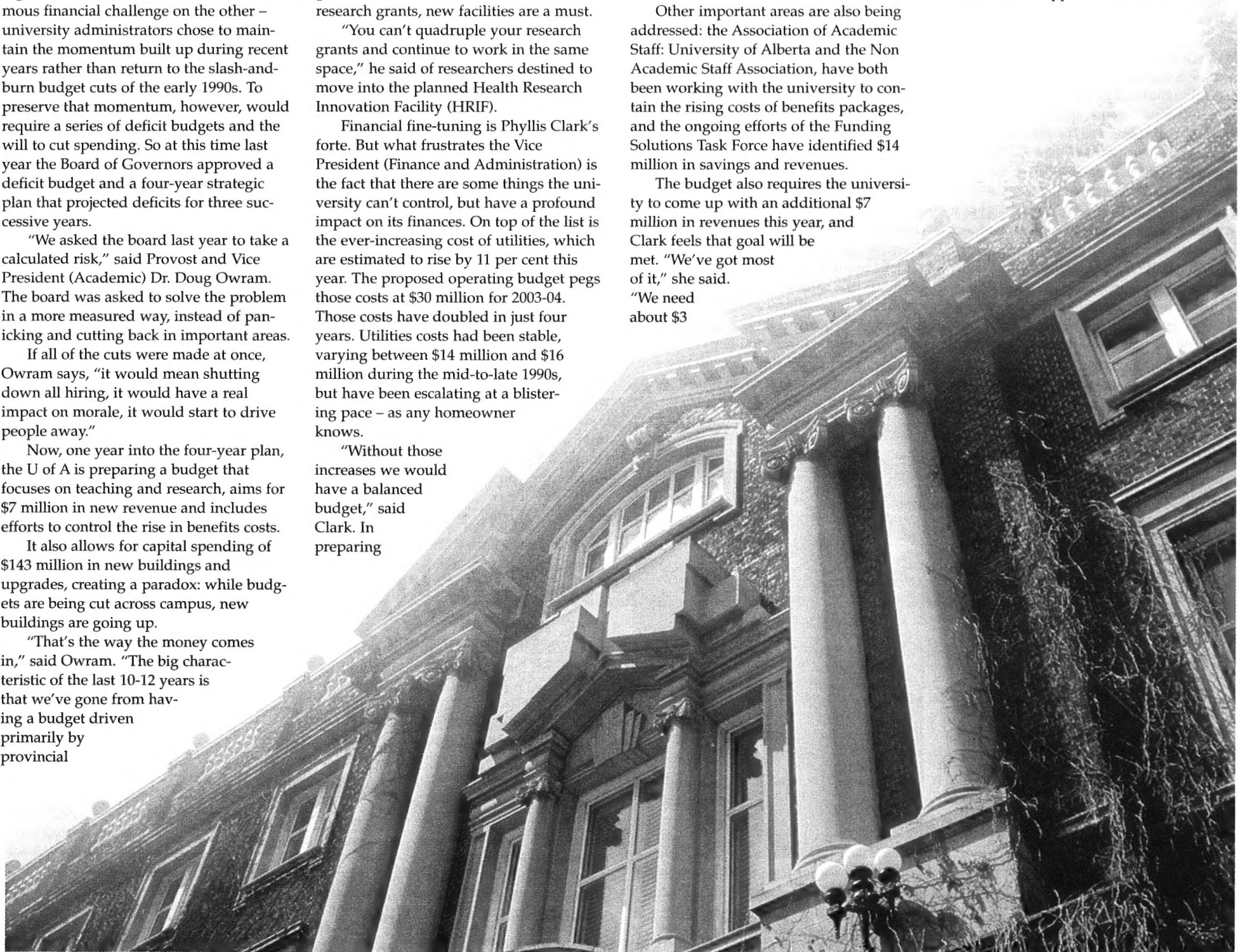
million more and we're quite confident that it will come in."

If funds don't come in, or if the university runs into unexpected financial troubles, Oram cautioned, further cuts will be implemented. This year's 'Plan B' was the further one per cent across-the-board cut announced several weeks ago.

"We have to stay within the deficit solution plan that we laid out to the board last year," said Oram. But in spite of the risks, Oram feels comfortable with the choices the university has made.

"The good news is we can balance this budget, and we will," he said. "We won't let this deficit creep up on us."

The budget proposal goes before the Board of Governors' Finance and Property Committee March 3 and to the Board of Governors for approval March 14. ■



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# 'My salmon farm researching days can't be over too quickly'

Editor, Folio:

In response to *Farmed salmon is good salmon*, (Folio, Feb. 7) by Dr. Hicks, following the publication of *Good fish, bad fish?* (Folio, Jan. 24): Dr. Hicks, DVM agrees the weight of evidence should stand for itself, then follows with qualitative, unsubstantiated rebuttals. Allow me to respond to his points in turn.

1) After slighting the author for using the same pattern of presentation that appears in every salmon farm industry publication, Dr. Hicks suggests antibiotic use in salmon farming is the lowest of all cultured animals. Aside from the problem of being proud to use 6.5 tonnes of antibiotics annually, the issue is not quantity but process. Salmon farms are in full contact with the marine environment – what goes in comes out – including antibiotics, which persist in the environment for long periods. Paone's review in 2000 cites 19 peer-reviewed papers chronicling antibacterial resistance in sea floor organisms around fish farms ([www.ancientrainforest.org/reports/ff\\_report\\_disease.pdf](http://www.ancientrainforest.org/reports/ff_report_disease.pdf)). Once loose in the environment, resistant bacteria become a significant risk. The Scottish Executive Branch has identified drug resistance in fish pathogens; spread of drug resistant pathogens and/or plasmids to humans; presence of antibiotics in fish as major concerns associated with salmon farms ([www.scotland.gov.uk/cru/kd01/green/reia-00.asp](http://www.scotland.gov.uk/cru/kd01/green/reia-00.asp)). Similar concerns appear in a recent Pew Oceans Commission report ([www.pewoceans.org/ocean-facts/2002/01/11/fact\\_22988.asp](http://www.pewoceans.org/ocean-facts/2002/01/11/fact_22988.asp)). Interestingly, a paper (Noakes et al. 2000 Aquaculture 183:363-386) published by industry apologist Dr. Don Noakes, head of West Coast aquaculture for the Department of Fisheries and Oceans, failed to cite any of the 19 papers cited in Paone (2000), including an outbreak of triple-resistant bacteria on a B.C. salmon farm in 1993. Noakes was eviscerated on a recent national broadcast of CBC's *Disclosure*. Such is the level of scrutiny we have come to expect from DFO on aquaculture-related matters.

2) Dr. Hicks states it is virtually impossi-

ble to eat enough farmed salmon to reach toxic levels. On average, how many servings of B.C. farmed salmon can be consumed per week before exceeding World Health Organization limits for ingestion of persistent organic pollutants (POPs) including PCP, dioxin etc? Answer: 1.5 (Easton 2002 *Chemosphere* 46:1053-1074). Farmed salmon were found to have 10 times more POPs than wild salmon. This makes sense given that fat is extracted from the fish rendered to produce oil-rich, fish meal. POPs are fat soluble and the production method amplifies the level of POPs fed to farmed salmon. On the topic of fatty acids, farmed fish have two to three times fewer omega-3s than their wild counterparts.

3) Hicks says farmed salmon's red colour is the same pigment as in wild salmon. Wrong. Canthaxanthin and astaxanthin are naturally occurring carotenoids found in lobster carapaces, krill, shrimp shells, flamingo feathers, and red algae. Hoffman La Roche synthetically produces Carophyll Pink, fed to farmed fish to give it colour, from petrochemicals. A 1996 study by the Food and Drug Administration found the natural and synthetic dyes are significantly different.

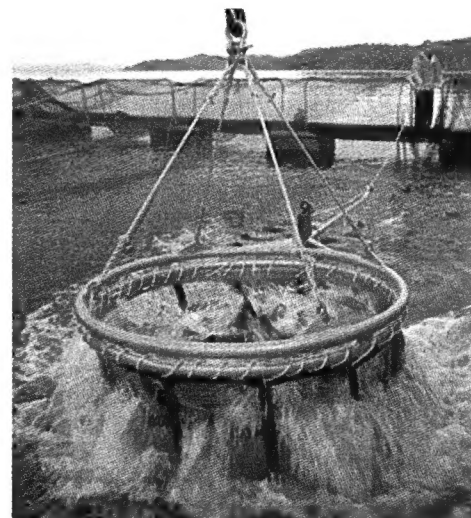
4) Hicks: "The waste output of farmed salmon relative to the amount of edible product produced is much lower than other farmed species, cattle, pigs, and chickens." Perhaps - but the issue is: how far out does the output go? These are open-net cages in the water. Where does the waste go? Pig and chicken waste doesn't take to the air to drift with prevailing currents. B.C. salmon farms introduce unfiltered, unsterilized waste equivalent to a city of 300,000. And this is exogenous material, stripped from southern oceans, rendered, and shipped north with massive consumption of fossil fuels to be dumped into our coast.

5) Hicks: "Atlantic salmon are not an invasive species". Cripes – how many times must I listen to this worn record!? This is a major focus of my lab and the topic of my PhD dissertation. I have demonstrated why Atlantic salmon failed

to colonize the B.C. coast nearly 100 years ago and appear to be doing so quite successfully now (Volpe, et al. 2001 *Canadian Journal of Fisheries and Aquatic Sciences* 58:197-207). Free ranging Atlantic salmon are ubiquitous from Alaska to Washington State with abundances vastly underestimated by passive DFO survey techniques (Morton and Volpe 2003 *Alaska Fishery Bulletin* in press). Are Atlantic salmon invasive (ie. cause significant damage)? Hands up, all those who vote to stand idly by to find out . . . who gave this industry authority to run this experiment?

6) Hicks appears to take credit for the bumper sockeye run in the Adams River this year. Perhaps the industry would like to take responsibility for the emergency designation of the Sakinaw Lake and Cultus Lake (both "Fraser" stocks) sockeye populations (Nov. 15, 2002)? I do know the industry has not accepted responsibility for the greatest single salmon crash ever recorded: this past year's Broughton Archipelago pink salmon population, which was decimated by sea lice originating from neighbouring salmon farms (PFRCC 2002 - [www.fish.bc.ca/html/fish3011.htm](http://www.fish.bc.ca/html/fish3011.htm)).

7) Hicks says B.C.'s moratorium on salmon farming was lifted so coastal communities could "participate in the global salmon market." Oh the old market triumphalism argument, the same putrid schtick that precedes Walmart and McDonald's entering a community. People are not looking for jobs, they are looking for a livelihood. Salmon farms promise great economic returns - but then growth devours the economic and social resources of community, homogenizes economic diversity and profits are moved offshore. Yes, coastal communities are bending over backwards "to participate". Is that why we now see automated farms in Clayoquot Sound, unmanned and remotely controlled from who knows where? Is this why the Homalco Indian Band is refusing Heritage Aquaculture, preferring to see its territory support 75 of its own people operating an eco-tourist company rather than 24 of



Salmon farms release tonnes of antibiotics, excrement and parasites into the surrounding ecosystem.

them performing manual labour on a salmon farm while threatening their coastal heritage – and seeing none of the profit?

8) Hicks: "Dr. Volpe relies on his thesis, that salmon farming is a threat to wild salmon, so that he can build a career and get funding support for his research. Why should Dr. Volpe be believed?" This one is still getting a lot of play in the lab. Hicks raises salmon and sells salmon feed for a living. I educate people. Who has the vested interest? Only four of my 11 graduate students study aquaculture-related issues. When the salmon farm industry implodes under the weight of its own greed, I will still be an educator and studying marine and aquatic ecology (and have more time to spend with my family!!). So as far as I am concerned, my salmon farm researching days can't be over too quickly. The question is, when the industry as we know it goes down, what is it going to take with it?

Thank you for consideration of the facts.

Dr. John Volpe, PhD.  
Biological Sciences  
U of Alberta

# Is TV mobster as menacing as the Brooklyn Iceman?

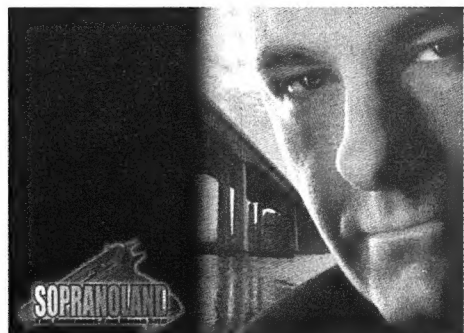
Editor, Folio:

I haven't watched a single episode of the TV Series *The Sopranos*, about the New Jersey Mafia, in spite of annoying suggestions by my colleagues that I do so because of my Italian ancestors and because they thought it enlightening.

They couldn't have known of my familiarity with Mafia types in my formative years in New York City (read on!), but now that, according to Geoff McMaster (*Afraid of women? Fuhgedaboudit!*, Folio, Feb. 7), U of C film study Professor Maurice Yacowar equates the series to no less than Dickens or Shakespeare in five acts, I'll swallow my childhood prejudices and consider wallowing in contemporary classics.

I should qualify that in all my living in Italian neighbourhoods of the Bronx, Brooklyn and Manhattan of the '30s and '40s (and a world away from New Jersey!), I only met one Mafioso. Well, maybe.

He was the iceman, cap on the side of his head and threatening eye, who carried blocks of ice on his sack-padded shoulder into household kitchens. He'd pop into the row houses in the Bath Beach section of Brooklyn, while we attacked the ice on the



TV tough guy Tony Soprano: he ain't as tough as the Brooklyn Iceman.

straw-strewn platform back of his wagon.

At that young age we liked to court danger: to hitch to Coney Island on the back of trolleys; to taunt policemen with "Hey, potato eater!" (all New York cops were Irish in those days) and run off through back alleys; and to steal from fruit trees of neighbours, especially if they had vicious dogs.

Well, because we knew this iceman was a Mafioso (he never smiled, never talked, always scowled) and because we loved a dare, we chipped chunks from the large rectangular ice blocks with the very

pick he'd leave behind during his deliveries, popped the ice into our mouths and disappeared into doorways. Delicious! But we wouldn't do this alone: we were four or five of us, limber and fast of feet.

How did we know he was a Mafioso? Well, he looked it, every inch of him! Everybody said so: But you'd better not get caught saying it or he'll get you between the ears with his ice tongs and drag you to Mafia-land and you'll never be heard from again!

Nobody got caught. We came out of the doorways as he drove off, ran after him and shouted atrocious obscenities at him.

We could see his steely eyes through the small oval window in the back of his wagon as it retreated. We couldn't tell if he was smiling or growling. Maybe he knew what we'd been up to but wouldn't let on.

Typical Mafia! But maybe *Sopranos* creator David Chase's take on the New Jersey mob won't be a turn off for me, or else the manager of the music store from which I will have purchased the very expensive DVD box set of *The Sopranos* will have his feet encased in cement and

dumped off the Low Level Bridge into the deep North Saskatchewan, courtesy of the local Mafia, if he refuses to refund my purchase.

Louis Munan,  
Edmonton



# Bob Dylan's loving thievery

Is Bob Dylan a genius or a thief?

By Geoff McMaster

Bob Dylan often walks a fine line between plagiarism and allusion, and therein lies his genius.

That was the conclusion of Dylan biographer and former University of Alberta professor Dr. Stephen Scobie at a unique symposium sponsored by the English Department. Scobie, a celebrated poet in his own right, demonstrated myriad ways in which Bob Dylan unabashedly weaves an intertext of quotations in many of his lyrics.

Pointing to the song *High Water (for Charley Patton)* from Dylan's 2001 release, *"Love and Theft"*, Scobie noted that the song included more than a dozen quotations from sources as varied as English Nursery Rhymes, African-American Blues, an obscure 1950s pop song, and even Charlotte Bronte's *Jane Eyre*. In some instances, whole lines and even couplets are lifted verbatim from the source.

The title of the album itself, *"Love and Theft"*, deliberately set in quotation marks on the CD cover, can be seen as Dylan's acknowledgment that songwriting intensely engages with both acts.

"Dylan takes the whole idea of love and theft very seriously," said Scobie. "He loves the stuff, but also unashamedly steals it." You could call it post-modern intertextuality, or "good old-fashioned plagiarism," said Scobie. "At what point does allusion become quotation or become theft?"

But the result, at least under the stroke of Dylan's pen, is a dazzling and evocative

tapestry. The song becomes more suggestive, opens up more thematic directions, upon each listening. And, Scobie asks, what act of writing isn't on some level an act of theft anyway?

Scobie has spent enough time with Dylan's lyrics, with the tradition of English literature, and with the "love and theft" of writing poetry to know. He's written two books on Dylan, one a critical work called *Alias Bob Dylan* (soon to be re-released), and one a poem sequence called *And Forget My Name: A Speculative Biography of Bob Dylan*. The University of Victoria English professor has also won the Governor General's Award for *McAlmon's Chinese Opera*.

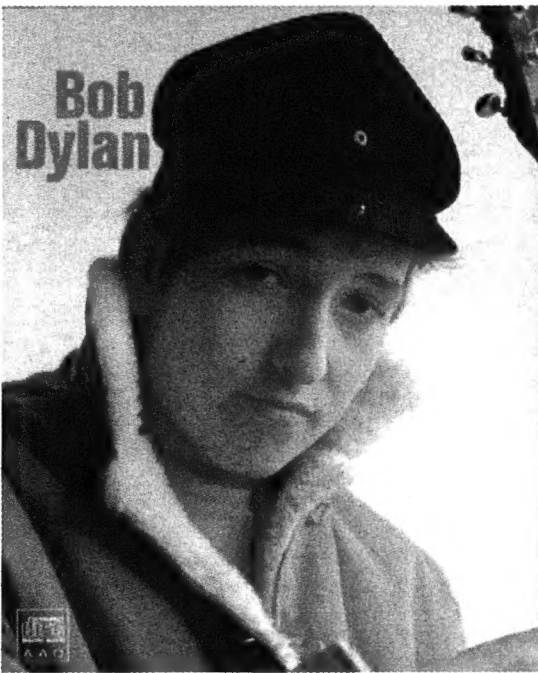
Since Scobie was on campus as external examiner for a doctoral defense, the English department's visiting speaker chair, Dr. Ted Bishop, thought it would be the perfect opportunity to snag him for a talk in the Culture on the Edge lecture series.

"What I'm trying to do with all of these is to arrange talks of interest to a wider community than just honours English students, or indeed students from the Faculty of Arts," Bishop said. Previous talks have taken up *The Sopranos* television series and motorcycle culture.

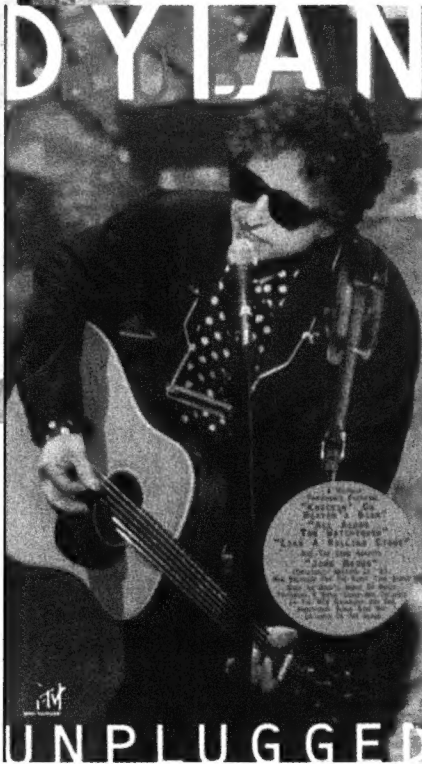
The Dylan talk was held at Fiore's Cantina on 109th Street to provide some distance from the sometimes-stifling environment of academia, says Bishop. "The idea is to try and take something into the

"Dylan takes the whole idea of love and theft very seriously," said Scobie. "He loves the stuff, but also unashamedly steals it."

— Dr. Stephen Scobie



Is Bob Dylan a poet or a thief? Former University of Alberta professor and Dylan biographer Dr. Stephen Scobie says Dylan is a bit of both.



Sony Music

community; people have a different kind of discussion when they are off campus."

Bishop also invited local CKUA radio announcer and musician Lionel Rault to play a few Dylan songs and talk about Dylan's influence on his own songwriting. Rault pointed out that Dylan's borrowing of material is an organic feature of both the blues and folk music traditions in North America. Indeed, many blues artists would just add a single verse, or even just one line, to a song in circulation and call it their own, he said.

"Bob was also messing around with the persona of the beat poet, and it was a very attractive combination of things," said Rault, recalling his own early days as

a professional musician hugely influenced by the master songwriter.

"I went right down that lost highway as quickly as I could get there after I heard Bob Dylan doing it." ■

# University hosts moot-court qualifier

Strong showing falls just short of last year's mark

By Gilbert A. Bouchard

They were all exhausted after a grueling weekend of moot litigation, but contenders in the Canadian Jessup Competition couldn't have been more enthusiastic.

"It's always a very exciting competition and the most intensive moot competition a law student can participate in," said Jamie Dee Larkam, national coordinator of the national qualifying tournament for the 2003 Philip C. Jessup International Law Moot Court Competition held this past weekend at the University of Alberta.

"It's a phenomenal amount of work getting 250 people moving in the same direction at the same time, but in the end, a good time was had by all," said the practicing Edmonton lawyer, a Jessup alumnus and former coach of the U of A's Jessup team.

"It's like I've been working two full-time jobs these past six months, and I've had maybe six hours of sleep over the whole of the last week."

Teams from 16 of 24 Canadian law schools participated in this year's prestigious event, with the top two schools (the University of Toronto and the University of Victoria) going on to strut their legal stuff alongside universities from 90 other nations at the international rounds of the Jessup set for April in Washington, D.C.

The University of Alberta team – one

of two finalists in Washington last year – placed second in the country on Friday, earning a spot in the final-four competition Saturday. Based on very close results the team, made up of Greg Fingas, Liza Wold-Rosychuk, Weston Rudd, Clark

Schow and Ian Smith, finished in fourth place overall.

The Jessup Competition is a chance for law students to argue international law, says Larkam. In this year's tournament the students presented the myriad concerns (war crimes, trafficking in women, corruption, the responsibility of government officials) of two fictional balkanized nations, Annolay and Reston, before panels of 100 guest

judges, in the form of previously submitted written briefs and oral presentations. "It's certainly the most demanding of all the moot competitions," Larkam explained.

Underlining the great commitment that the legal community, including many Jessup alumni, show towards this prestigious event, all the judges pay their own way to the competition, says Larkam. She says law professors, government lawyers and legal practitioners from across Canada and the U.S. participated, including Justice Ian Binnie and former Justice Gerard LaForest of the Supreme Court of Canada.

More than just an opportunity to strut



Catherine Miller

The U of A's Moot Court team appeared destined to repeat last year's first-place finish but wound up fourth overall.

their emerging lawyerly stuff, the competition process gives law students a rare opportunity to get on-their-feet advocacy experience and detailed feedback from a remarkable assembly of talent.

Clark Schow, a second-year law student and the researcher for the U of A's Jessup team, says the moot contest is an "amazing" and unique opportunity to hone rarified courtroom skills.

"You won't learn this kind of stuff sitting in the classroom," said the 24-year-old who, while disappointed by his team's final placement, is still buoyed by the professional and personal benefits of the competition. "It's almost a chance of a lifetime learning how to conduct oneself in a courtroom. I mean, how many people my age can say they argued in front of a Supreme Court judge?"

Schow's enthusiasm is echoed by fellow team member, Weston Rudd.

"It was such a thrill, and so exciting to

be in front of such keen minds who really, really pushed us forward," said the 27-year-old, second-year law student.

That's not to say participating at the Jessup was all peaches and courtroom showboating. Both Schow and Rudd are quick to underline the "insane amount of work" it takes the team to prepare.

"It's more work than I've done for anything in my whole university life," said Rudd. "We worked 13 or 14-hour-long days the whole Christmas holiday and then pulled two all-nighters in a row putting written submissions together by deadline."

Yet, despite the nerves and sleepless nights, Schow, Rudd and Larkam are far from done with the Jessups.

Schow and Rudd are seriously considering fighting for a berth on the U of A's 2004 Jessup team, and Larkam is off to judge in the Washington international competition. ■



# Gauging the true costs of aging

Study will examine contributions and costs of aging

By Geoff McMaster

University of Alberta human ecology professor Dr. Janet Fast will lead a \$2.3-million international study on the costs of aging.

One main goal of the research, which brings together human ecologists, sociologists, gerontologists, social workers and nursing scientists, will be to balance the costs of caring for elderly relatives against the contributions they make to their communities.

"There's tremendous emphasis on aging right now," said Dr. Norah Keating, also of the U of A's human ecology department and lead investigator on the care-giving component of the study. Fast, in addition to supervising the study overall, will lead the contribution component.

Participants elsewhere in Canada, the U.S., Britain, the Netherlands and Australia will explore aging and social policy, as well as more general perspectives provided by the humanities such as the history of caring for seniors in Canada and literary representations of aging. Funding is provided by the Social Sciences and Humanities Research Council of Canada (SSHRC).

Keating said the research will fill a knowledge vacuum that exists about seniors and aging and that its findings will add balance to concerns that social costs are rising dramatically as our population grows older.

"We do need to know more, to get past the panic about costs and do a little more systematic looking at which costs, who bears the costs, what they are, and what we need to do about it," said Keating. "But

**"The responsibility for care has largely shifted toward individuals and families. When this happens, costs are also shifted – to care givers, the elderly, even employers."**

– Dr. Janet Fast



Dr. Janet Fast has been awarded a \$2.3-million SSHRC grant to research the role and contributions of seniors in society.

we also don't want to buy into all the rhetoric about aging being only a problem...

"The voluntary sector is, to a great extent, run by older adults. We lose track of that in all the worrying about population aging and its devastating effects on society." The research team will therefore consider such 'social capital' as the practical knowledge and spiritual guidance older adults provide.

Keating says the proposal for the project was initiated by the U of A human ecology department knowing it had a strong international network of researchers interested in participating. Its five-year mandate will allow researchers to take an integrated, collaborative approach that explores aging and care-giving from a variety

of perspectives and disciplines.

Some results will be ready for publication in about a year, and with any luck, says Keating, decision-makers will use the information to create more effective policy and services for caregivers and their dependents. Some team members have already been consulting with Human Resources and Development Canada on a plan to use employment insurance to cover caregivers who have had to leave the workforce.

"It's kind of like the program of parental leave that we now have," said Keating "It's something the government is looking at right now."

"The responsibility for care has largely shifted toward individuals and families,"

added Fast. "When this happens, costs are also shifted – to caregivers, the elderly, even employers. For example, both caregivers and those they care for are more likely to develop anxiety and to suffer financially, whether through lost wages or out-of-pocket personal costs."

The funding announcement for the project was made by Industry Minister Allan Rock, who is also responsible for SSHRC.

"As Canada's population ages, we need research to understand the care costs and social contributions of our seniors," said Rock. "This study will offer guidance on how to ensure the elderly receive the care they need, and the respect they deserve." ■

## Researchers reach ScienceDirect

Deal makes hundreds of publications available

By Ryan Smith

Researchers at the University of Alberta are celebrating the addition of about 1,000 academic journals to the U of A Library System via the Internet.

Since the first week of January the electronic journals, all published by Elsevier, have been available through the U of A's involvement with the Canadian National Site Licensing Project (CNSLP). A deal negotiated through the CNSLP allows the U of A and 60 other member institutions to purchase Web access to Elsevier's ScienceDirect platform of journals, which includes about 1,500 journals and about 200 other academic press titles.

Last year, the U of A held subscriptions to print copies of about 500 Elsevier journals. This year, the CNSLP deal allows the university access to all 1,500 journals in the Elsevier library for just a five-per-cent increase in costs the U of A paid to Elsevier last year. The deal allows online access to the journals dating back to 1998. U of A researchers already have access to the other 200 academic press titles in the ScienceDirect collection, thanks to an earlier licensing agreement.

Karen Adams, director of library services and information resources at the U of A, is pleased with the deal, especially because it allows each CNSLP member institution to cancel, without penalty, the print copy subscriptions it has maintained with Elsevier up to this point. Therefore, if

the U of A cancelled all the Elsevier subscriptions held last year, it would still receive access to all the same journals electronically for only five per cent of the total cost paid to Elsevier last year.

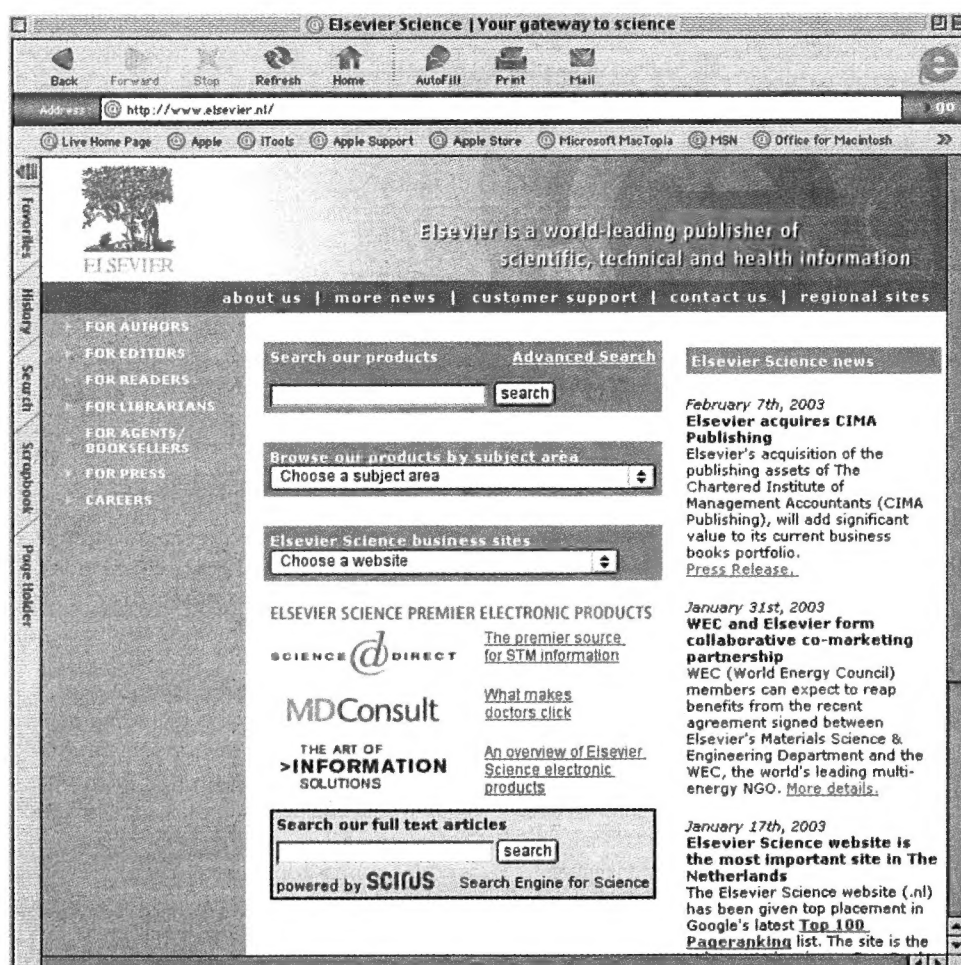
"We'll probably only keep a real small number of our print subscriptions with Elsevier, because we find the e-journals are so popular," said Adams. "Traditionally the Elsevier package has been very expensive, so obviously we're very proud of the deal. It's a real savings to us, and they don't have to kill as many trees."

"This makes a big difference to me, and it's very advantageous for everyone on campus," said Dr. Connie Smith, an economics professor at the U of A.

"Elsevier is a very big publisher of important economics journals, and it's so important for me to have access to these titles, not only for my own research but also so I can refer my students to articles online."

"This is beautiful," said U of A biological sciences professor Dr. Norm Casey as he discovered he can access an electronic version of *Aquaculture*, an Elsevier journal.

"The U of A had to cancel this journal a few years ago because it cost about \$1,500 a year," he added. *Aquaculture* covers a specialty field – fish and fishery products. "But that's my field, and this is the best journal in the field. It's a great reference for me. This is fantastic news that we now have access to it again." ■



U of A researchers now have Web access to about 1,500 journals and about 200 other academic press titles published by Elsevier.



# Music project empowers inner-city youths

*Students 'challenge stereotypes'*

By Ryan Smith

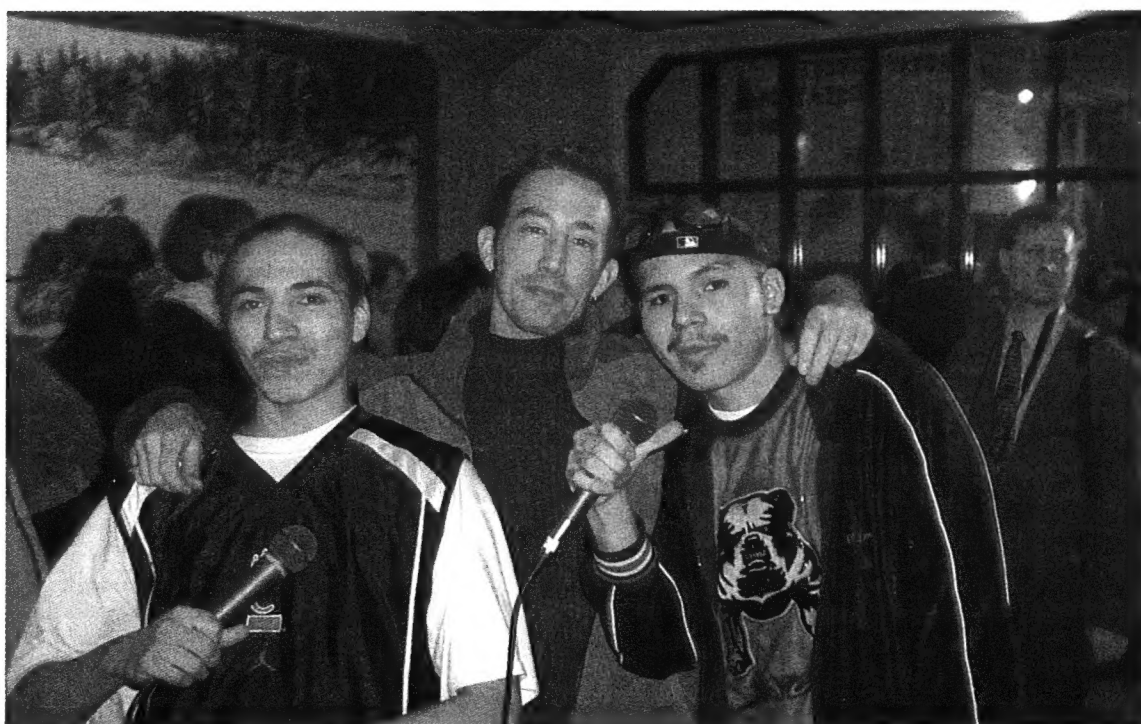
Brett Lashua has designed a program that puts microphones into the hands of those who traditionally have had the least say in Canadian society. The University of Alberta physical education and recreation doctoral student has developed and now manages the Beat of Boyle Street Project, which allows inner-city youths, particularly aboriginals, the opportunity to express themselves through music.

Lashua has used \$50,000 in support from a federal crime prevention program to buy sound systems and computer equipment for his students at the Boyle Street Education Centre in downtown Edmonton. He spends 20 hours a week at the centre to help his 18 regular students, and several drop-ins, develop their own music, usually rap and hip-hop.

"The interest in this program is huge," Lashua said. "And the students in the program work very hard. I often stay with them and help them work with the equipment through their lunch breaks."

Hope Hunter, executive director for the Boyle Street Co-op, which encompasses the education centre, said the music program, which has been running since September, is already showing benefits.

"I see kids engaged and interested in their studies; I see their confidence and esteem growing; I see them working together; and I see them taking elements of their own experiences and culture and pushing them in a positive direction," she said. "Too often we forget the arts are a critical piece of human development."



Brett Lashua, seen here with two of his students, Paul Campbell (left) and Trevor Cardinal, is running the Beat of Boyle Street project, allowing inner-city youth to develop musical and social skills.

A native of Cleveland, Ohio, Lashua came to the U of A to work with physical education and recreation professor Dr. Karen Fox. "There is more to recreation than sports and games...Music is also an important part of recreation—it's a way that many young people find and express their own identity," Lashua said.

"I just started the music program, but I love it already," said Trevor Cardinal, a 19-

year-old student whose rap name is Novakane. "It gives me a chance to have my voice heard and make a difference in the community."

Aside from staging live performances, students in the program post their music on the Web and burn their own CDs.

"There's been a lot of negative stuff in the media about native youths being involved in crime and violence, on the

LRT and gang-related fights, and that's problematic," Lashua said. "I think these are predominantly racist portrayals. When you hear what native youths have to say in their own voices, you see how they challenge stereotypes, and you realize their words are very powerful and carry a strong political message."

The program is funded through the National Crime Prevention Strategy. ■

"I see kids engaged and interested in their studies; I see their confidence and esteem growing; I see them working together; and I see them taking elements of their own experiences and culture and pushing them in a positive direction. Too often we forget the arts are a critical piece of human development."

— Hope Hunter

# Mating project is the perfect assignment

*Students get to the heart of the matter*

By Ryan Smith

"I have never been involved in a school project that is more relevant and interesting to me than this one," said Jason Jones, fourth-year University of Alberta psychology student.

Jones and fellow students Lisa Jewell, Rebecca Williams, and Darryl Schneider, are working to produce a half-hour radio program for a project worth 40 per cent of their mark in Dr. Don Heth's Psychology 400 class. Their program, which is due March 20 and is expected to air on campus-community radio station CJSR in early April, deals with psychology and human mating. Determined to spice up his assignments, Heth began assigning radio programs in place of term papers last year. The students seem suitably impressed.

"We've learned a lot, and we're going to try to show that, even though most people think they have a choice and free will when they choose their mate, there is a lot of biological and evolutionary evidence to prove that who we choose to mate with is actually predetermined," Jones said.

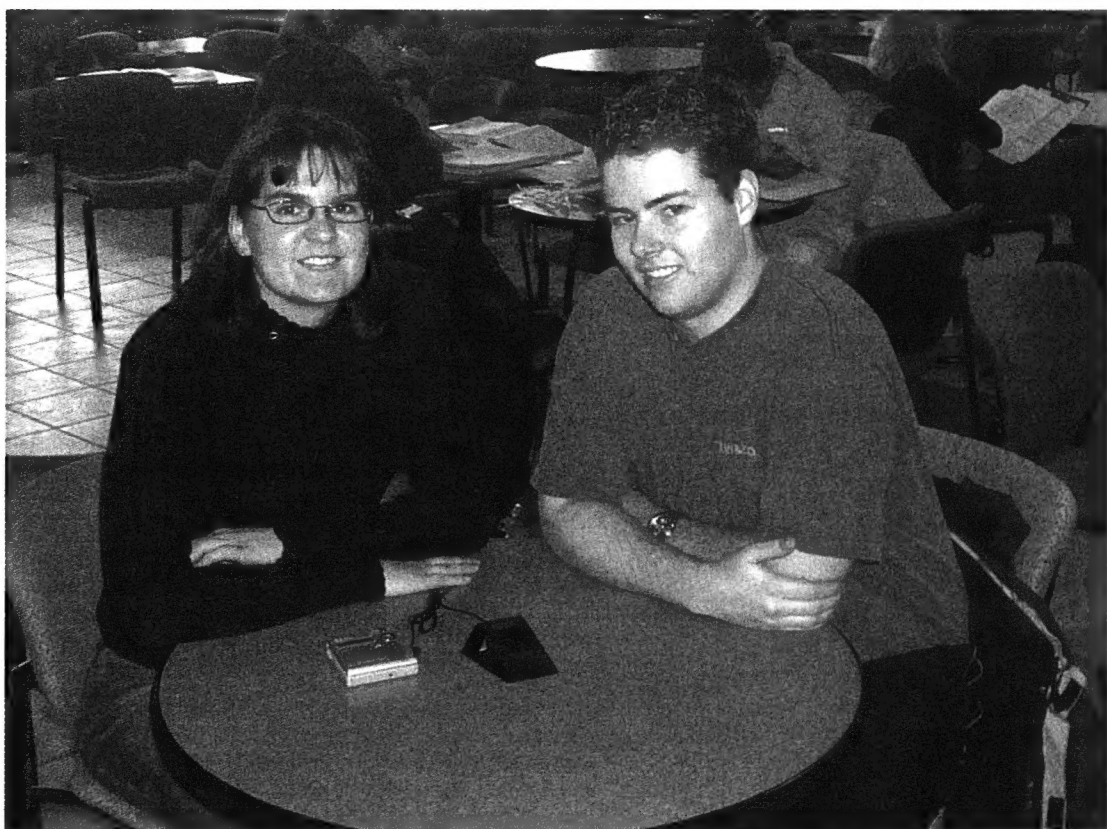
As an example, Jones cited a study by John Money, which indicates our sexual attraction patterns, or "love maps" are evolved based on our erogenous zones, our child play experiences and our relations with our parents – and all of this is determined by the time we are four years old.

Also, Jewell said, studies have shown that humans are inclined biologically to lose interest in a mate after about four years. "And our current divorce rates back this up, showing that divorces happen most often around the four-year mark," she said.

To support their thesis, Jewell and Jones cited other studies, including one that suggests females are most likely to have affairs when they are in a biologically fertile state. As well, Jones noted a theory

We've learned a lot, and we're going to try to show that, even though most people think they have a choice and free will when they choose their mate, there is a lot of biological and evolutionary evidence to prove that who we choose to mate with is actually predetermined"

— Jason Jones



Psychology students Lisa Jewell and Jason Jones are helping prepare a radio documentary about mating for their psychology class.

on settling. "It's called the 'try-a-dozen rule'," he said.

Everyone wants to mate with the alpha male or female, but throughout our lives we learn what kind of people we are capable of mating with. For the most part, he said, we determine this during our youth, based on how popular we are and how confident we feel around members of the opposite sex.

"You then date or seriously consider 12 members of the opposite sex. You find the best one of them, and then the next person you meet who is better than that, you set-

tle down with. This seems to make sense because people usually have a serious relationship or fall in love for the first time and then break up and marry the next person they fall in love with," he said. "The point is that this is instilled in our evolutionary pattern, so we don't control this consciously but are driven to it by our biology."

However, Jewell cautioned that the issue is not a simple one. "These evolutionary predispositions are only a small part of the story. People are also greatly influenced by their culture, their personal

histories, and their current situations."

Jones said the group is trying to contact and ask leading experts, such as Desmond Morris and Helen Fisher, to lend their voices to the program.

"This project is a lot of fun," Jewell said. "I've enjoyed the work we've done to set up the technical side of the radio program, and the topic we're doing has helped me to learn about my own relationships and apply what I've learned to my own life."

"This is psychology at its best," Jones added. ■



# Demolition crews move in

*Blench, Newton buildings make way for more teaching, research space*

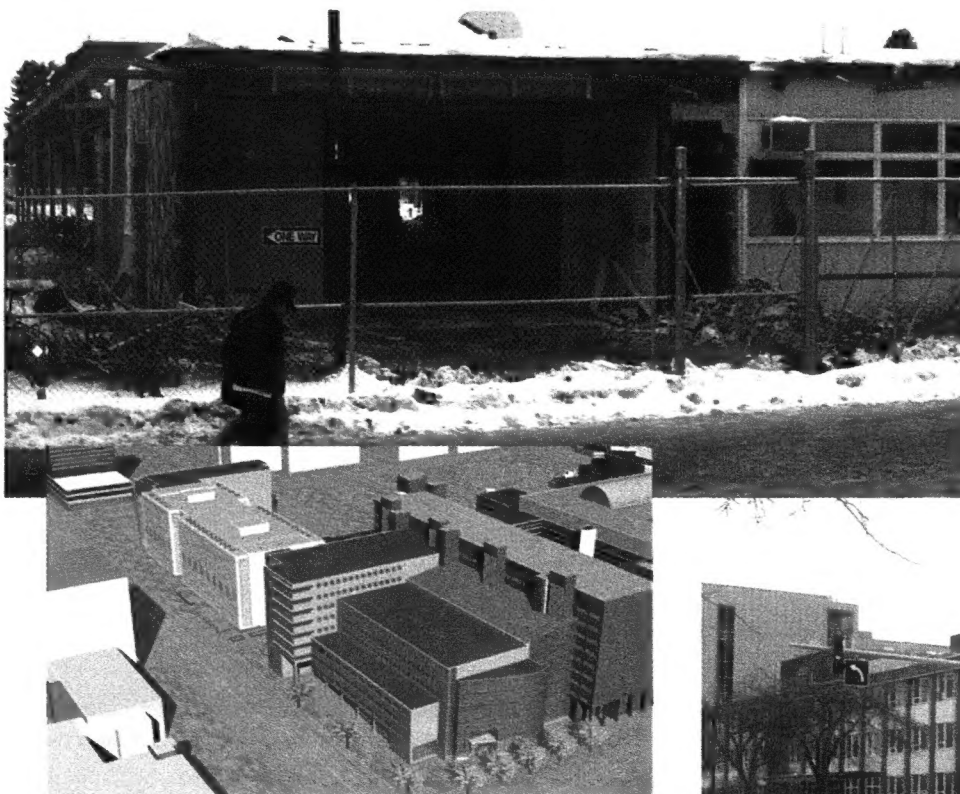
By Richard Cairney

Two campus landmarks are being demolished to make way for new facilities. Construction crews are tearing down the Blench Hydraulics Laboratory on 116 Street, and the Newton Research Centre will meet the same fate later this year.

Built in 1955 as the Alberta Research Council Building, the Newton Research Centre was the first official, comprehensive home of the Alberta Research Council. It was later transferred to the U of A and is named after former university president Dr. Robert Newton.

Two years ago, as the ARC celebrated its 80th anniversary, a time capsule enclosed in the building's cornerstone was opened. The capsule contained documents and negatives of photos relating to the history and planning of both the ARC and construction of the building. It also contained profiles of prominent Alberta researchers who had since passed away, a copy of *The Albertan* newspaper from Sept. 8, 1955, a minted set of 1954 Canadian coins, a set of five-cent stamps designed and signed by prominent U of A zoologist Dr. William Rowan, the first annual report of Alberta's mineral resources as well as a report on the fluoridation of Alberta's public water supply.

The building will be torn down, likely this spring, to make way for the proposed Health Research Innovation Facility (HRIF). With a total cost of \$375 million, HRIF will proceed in two phases, with buildings on the east and west side of the existing Heritage Medical Research Centre. The west building will house medical research groups such as the Surgical Medical Research Institute, the Alberta Diabetes Research Centre and the Institute



for Biomedical Design. The east structure will be a parking facility.

The university anticipates the provincial government will commit supporting funding for the project in its spring budget.

A one-level brick building dwarfed by the General Services Building to its south and the new Engineering and Teaching and Learning Centre on its north side, the Blench Hydraulics Laboratory building was named for Thomas Blench, a former

professor of civil engineering who joined the U of A in 1948.

Demolition of the building is underway. It will be replaced by the Faculty of Engineering's \$65 million Markin/CNRL Natural Resources Engineering Facility, which will include the School of Mining and Petroleum.

The NREF building will create 30,000

Demolition crews have leveled the Blench Hydraulics Lab (left) as construction on the new NREF Engineering building is set to begin. The Newton Research Building (bottom right) is also slated for demolition to make way for the new Health Research Innovation Facility (bottom left).



square metres of new space for the faculty, including 14 classrooms, 16 undergraduate labs and 84 research labs. The U of A Board of Governors approved a budget of \$42.7 million to build the facility's shell, a strategy that will save money by moving ahead with construction prior to confirmation of provincial support. It is scheduled for completion in 2004. ■

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## CNS hooks up business student

*Staff donation motivates student to work hard*

By Chelsea Clogg

Aaron Rogers admits he studies "way too much." But, all of the hard work is paying off.

The fourth-year University of Alberta business student was recently awarded the U of A Computing and Network Services (CNS) ICT Achievement Prize in Management Information Systems. Established through donations from CNS staff, the \$500 prize is awarded to the student with the highest mark in Management Information Systems 311.

This class, which deals with the efficient flow of information in companies, was chosen "because it is most in sync with CNS and our mandate on campus," said Trudy Smith, an accounting assistant with CNS.

Rogers looks at this award as an incentive to keep working hard. "Any scholarship you're lucky enough to get takes some of the pressure off. Then you can concentrate on school, and that's what we're here for," he said.

Having won a number of scholarships and awards, Rogers equates the time he invests in his school work to the time that could be spent working at a part-time job. "But this way, I'm earning enough to stay in school," he said.

While marks are important and have earned him a spot in law school next year, Rogers is also involved in campus intramurals and spends his winters coaching baseball camps for kids between the ages

## Gifts in Action

of 6 and 18. The 22-year-old Edmonton native is also a student ambassador for the School of Business. "The best part of my time on campus has definitely been meeting all the great people," he said.

Rogers is very positive about his university career, and he hopes to some day be in a position to give back to other U of A students. "Most scholarships are given for either academic achievement or financial need," he said. "I'd like to find a way to give to students who are missing out on these awards."

This is the first year the CNS award has been available; however, the staff of CNS are working toward establishing an endowment that would allow the prize to be awarded annually. "There are a lot of staff who are interested in giving back and recognizing students on campus," said Smith. "Giving for a specific purpose, such as toward this prize, allows staff to see the results of their gifts."

(Gifts in Action is a recurring series in Folio, with the 2003 Family Campaign just around the corner. For further information on Faculty and Staff Gifts in Action contact Jeff Wright at the Development Office, 492 - 6765.) ■



# talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. **Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>**

UNTIL APR 2003

**Campus Observatory** The Campus Observatory is open to the general public every Thursday night beginning at 8 p.m. during the academic year, with the exception of holiday periods. The Observatory is operated by faculty and student volunteers belonging to SPACE (Students for the Promotion of Astronomy, Culture and Education). For further information, please contact Dr. S. Morsink at 492-3987.

UNTIL MAR 1 2003

**Exhibit: Dressed for Rites of Passage** Event sponsored by Department of Human Ecology. Dressed for Rites of Passage: University of Alberta. Our lives are full of rites of passage. Some are small, personal and informal, others are large, formal and very public. Universities are places where both individuals and institutions mark many changes and accomplishments, often with the use of clothing. Come to see how the University of Alberta has dressed for rites of passage since 1908. Mon - Fri: 7 a.m. - 9 p.m. Saturdays: 8 a.m. - 4 p.m. Sundays & holidays: 12 p.m. - 4 p.m. Free. Location: Lobby Gallery, Human Ecology Building.

UNTIL MAR 7 2003

**Microform Collections in the Rutherford Library** Microformats like microfilm and microfiche allow researchers to bring the archives of the world to their own libraries. Rutherford Library has rich holdings in microformat, including Early English Books, 1475-1640; 1641-1700 and the History of Science and Technology series. This exhibition will feature the most recent major addition to the microform holdings, the Thomason Tracts, 1640-1661. For more information contact: Professor Sylvia Brown, Department of English, [sylvia.brown@ualberta.ca](mailto:sylvia.brown@ualberta.ca)

FEB 24 - MAR 5 2003

**Faculty of Extension Gallery** "Another Morning on the Edge of the Volleyball Pit" by Bryan W. Westerman. A Final Visual Presentation for the Certificate of Fine Arts, Faculty of Extension. Gallery hours: Monday to Thursday, 8:30 a.m. - 8 p.m., Friday, 8:30 a.m. - 4:30 p.m. and Saturday, 9 a.m. - 12 noon. Extension Centre Gallery, 2nd floor, University Extension Centre, 8303 - 112 Street.

FEB 21 2003

**Department of Political Science** The Department of Political Science is pleased to announce a talk by His Excellency Ki-Ho Chang, Ambassador of the Republic of Korea to Canada on Current Developments on the Korean Peninsula. From 10:30-11:30 a.m. in Tory Building 10-4 (Political Science Boardroom). Co-hosted with University of Alberta International.

FEB 22 2003

**Philosophers' Cafe** U of A Philosophers' Cafe is an opportunity for the public to engage in informal, lively conversation about a philosophical or topical issue. Free admission. From 2 to 3:30 p.m. Nina's Restaurant 10139 - 124 Street. Topic: Sleeping with the Elephant: How does America influence the Canadian identity? Guest Scholar: Larry Aronsen, Professor of History & Classics. Moderator: Bernard Linsky, Chair of Philosophy.

FEB 23 2003

**Department of Music** Piano Master class with visiting artist Angela Cheng. Convocation Hall. Free admission. 10:00 a.m.

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FEB 24 2003

**Department of Biological Sciences** Department of Biological Sciences Botany 600 Seminar Series. Heather Addy, Department of Biological Sciences, University of Calgary presents "Can mycorrhizal fungi protect plants from pathogens?" at 12 noon in Room M-149 of the Biological Sciences Building. Web site: [www.biology.ualberta.ca/courses/bot600/](http://www.biology.ualberta.ca/courses/bot600/)

**Department of Biological Sciences** Special Ecology Seminar with the Department of Biological Sciences. Dr. Jim Schieck, Research Ecologist, Integrated Resource Management, Alberta Research Council, Vegreville, AB, Candidate for Adjunct Professor presents a seminar on "Managing Forest Birds In Harvested Landscapes: From Concept To Practice." 3:00 p.m. in Room M-149 of the Biological Sciences Building. Web site: [www.biology.ualberta.ca/news\\_events/seminars/index.php?series=14](http://www.biology.ualberta.ca/news_events/seminars/index.php?series=14)

**Department of Cell Biology** Recruit Candidate Piers Nash, PhD, Postdoctoral Fellow, Molecular Biology of Cancer/ Proteomics and Bioinformatics, Samuel Lunenfeld Research Institute, Mount Sinai Hospital, presents "Protein-Protein Interactions in Signal Transduction and the Cell Cycle." From 9:30 - 10:30 a.m., 5-10 Medical Sciences Building. Web site: [www.ualberta.ca/cellbiology](http://www.ualberta.ca/cellbiology)

**University Teaching Services** Kevin Moffitt, Technology Training Centre, presents "PowerPoint Texts and Pictures" This hands-on session reviews the basic features of PowerPoint before disclosing sources for clip art and pictures that can enhance presentations and provide hooks for student learning. Scanned images will also be discussed. Participants are encouraged to bring text so that they can start creating a presentation. 5:00-6:00 p.m., Technology Training Centre. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

**General Faculties Council** General Faculties Council Meeting. Vice-President (Research) Presentation: Priorities and Initiatives; Review of the Universities Act: Update from the Provost; GFC Question Period Procedure and Content of Written Questions: Proposed Changes to Section 57.3.8 of the GFC Policy Manual; Motion to Table: Proposed Changes to Section 57.3.8 of the GFC Policy Manual as Submitted by the Office of the Provost and Vice-President (Academic). Location: Council Chamber, University Hall. 2:00 p.m.

**Department of Music** Noon-Hour Organ Recital. The recital presents a variety of organ repertoire played by students, faculty and guests of the University of Alberta. Convocation Hall. Free admission. 12:00 p.m.

FEB 25 2003

**Department of Biological Sciences** Dr. Neal Michelutti, Paleoecological Environmental Assessment and Research Laboratory, Queen's University, presents "Algae as Indicators of Environmental Change - Examples from the Canadian High Arctic." Hosted by Dr. Randy Currah. From 11:00 to 11:40 a.m. Dr. Michelutti is a Candidate for the Bryology and/or Phycology Position in the Department of Biological Sciences. Location: TBW 2 Tory Breezeway.

**University Teaching Services** Todd Rogers, Educational Psychology, facilitates a session on "Essay Exams." When should essays be used to evaluate student learning? How should essay questions be constructed? This workshop explores how to assess learning using essays and other measures of performance including suggestions on how they should be evaluated. Participants are encouraged to bring sample questions from their own disciplines. 3:30-5:00 p.m. CAB 281. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

FEB 25 - 28 2003

**Department of Music** Open rehearsals and string master classes with Visiting Artists Cassatt String Quartet. Convocation Hall. General admission: \$15/auditor at the door. 9:00 a.m. - 12:00 noon.

FEB 26 - 28 2003

**Menstrual Week** The U of A Women's Centre Collective presents Menstrual Week, a series of events dedicated to challenging the secrecy and shame surrounding menstruation, at both personal and socio-political levels. Runs from February 26 to 28, 2003. Wednesday 5 p.m., Humanities 4-29: The Politics of Menstruation Discussion Forum. Thursday 5 p.m., Humanities 4-29: Alternative Menstrual Products Workshop. Friday 3:30 p.m., Education South 10th Floor Lounge: Wise Women's Natural Health and Fertility Awareness. Friday 8 p.m., Queen Alexandra Community Hall (10425 University Ave): A Menstrual Cabaret, presented by FUSS Feminist Collective. For further information, please contact Aliya Jamal at 450-0173.

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FEB 26 2003

**Department of Public Health Sciences PHS** Colloquium & Grand Rounds. Guest Speaker: Dr. Sorina Vlaicu, Policy Researcher and PhD Candidate, School of Public Policy, George Mason University, Fairfax, Virginia: "Patient Rights v. Managed Care in the United States: A Policy Formulation Model." 12 Noon to 12:50 p.m. Location: Room 2-117, CSB. Web site: [www.phs.ualberta.ca](http://www.phs.ualberta.ca)

**Dept. of English** Canadian novelist Margaret Sweatman will be reading at 2 p.m. Location: HC L-3.

**Gold, Glory and Pyramids in Ancient Peru** Renowned archaeologist Dr. Tom Dillehay will talk about the great coastal pyramid-building civilizations in Peru, and how these civilizations developed in one of the world's harshest climates. 7:00 p.m. Location: Provincial Museum of Alberta. Web site: <http://www.arts.ualberta.ca/~agas/>

**The Department of Medical Genetics** Medical Genetics Rounds. Dr. Torben Bech-Hansen will deliver his talk "What's Up with Congenital Stationary Night Blindness?" 12:00 noon - 1:00 p.m. Rm 2-07 HMRC.

**University Teaching Services** Maggie Haag, Biological Sciences, facilitates a session on "Classroom Dilemmas: Situational Teaching". Being an effective teacher requires more than teaching content. Instructors must also develop a positive environment for learning, maintain a professional image, and ensure students are treated fairly. Participants will play Classroom Dilemmas; a game based on the Milton Bradley board game Scruples. This game draws on the experience of seasoned teachers who will assist with various teaching situations. 3:00-4:30 p.m. CAB 281. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

FEB 27 2003

**Active Learning in Large Enrolment Courses** Students are more apt to learn at a deeper level if they are not merely recipients of knowledge, but actively involved in the learning process. While technology can create collaborative learning environments, it is also possible to integrate strategies to engage learners without employing extraordinary tools or expertise. We will explore ways to create dynamic learning environments that are classroom and web-based. Presenter: Ellen Whybrow. Time: 3:30 - 5:00 Location: Telus 214/216. Web site: [www.atl.ualberta.ca/](http://www.atl.ualberta.ca/)

**David Peikoff Chair of Deafness Studies** Topic Marking and Topic Hierarchy in American Sign Language. This advanced research lecture will be given by Dr. Terry Janzen, University of Manitoba, Faculty of Linguistics from 7 - 9 pm. The lecture will address topic marking in ASL within a hierarchy of topicality expression in ASL discourse. Sign language interpretation and Real-Time Captioning provided. For further information, contact Dr. Debra Russell at [debra.russell@ualberta.ca](mailto:debra.russell@ualberta.ca) or 492-1156. Location: 2-115 Education North.

**Department of History and Classics** Colloquium by Dr. Bruce Hevly of the University of Washington, "Coloring in the Map: Norwegian Terrestrial Physics and the Science of Borders, 1850-1950." 3:30 p.m. Location: Tory 2-58.

**Department of Political Science** Isabel Altamirano, University of Alberta, presents lecture "The Other Half and Women's Revolutionary Law in Southern Mexico." 3:30 p.m. Location: Tory 10-4.

**Big Shots in the Big House** Between 9 a.m. and 3 p.m. Campus Crime Stoppers will be hosting its bi-annual fundraiser, bringing back Big Shots in the Big House. Members of Campus Security and the Edmonton Police Service will be "arresting" participating Deans, Directors and Chairs who will raise bail money from a makeshift cell in support of the program. Location: Old SUB Stage. Web site: [www.cps.ualberta.ca](http://www.cps.ualberta.ca)

**Canadian Institute of Ukrainian Studies** Lecture on "Ukrainian Military Formations in German Armed Forces (1939-1945)" will be delivered in Ukrainian by Dr. Andriy Boliyanov's'kyj, Senior Research Scholar, L'viv University at 3:30 p.m. Book presentation follows. Location: Heritage Lounge, Athabasca Hall.

**Canadian Studies Café** The Canadian Studies Centre of the Faculté Saint-Jean invites you to a Canadian Studies Café from 7:00 p.m. to 9:00 p.m. This is a concert with Catherine Kubash, Mireille Rijavec and Jeremy Spurgeon relating the career of the singer "Albani" (1847-1930). The presentation will be bilingual (English-French). A light snack will be served. For information, call 465-8716. Location: Centre Saint-Jean, 8406 - 91 Street.

**Department of Rural Economy** Kathryn Harrison from the Department of Political Science at the University of British Columbia is holding a seminar titled "Incentives for Pollution Abatement: Regulation, Regulatory Threats and Non-Governmental Pressures." 1:00 p.m. Location: 550 General Services Building.

**University Teaching Services** Kevin Moffitt, Technology Training Centre, facilitates a session on "PowerPoint Custom Templates". This hands-on session takes participants on a step-by-step design journey by creating custom pages for a presentation.

Participants are encouraged to bring an existing presentation to transform into something that will engage the student learners. 5:00-6:00 p.m. Location: Technology Training Centre. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

**Watersheds, Wetlands and Oceans** Dr. Kathryn Harrison, Political Science, UBC, "Globalization and Environmental Regulation: The Case of the Pulp and Paper Industry." Location: 1 013 Engineering Teaching Learning Centre. 4:30 p.m. Web site: [www.ualberta.ca/ERSC/es.htm](http://www.ualberta.ca/ERSC/es.htm)

FEB 28 2003

**A Social Inquest: A Workshop on Qualitative Research in Injury, Health and Human Service Fields** From 9 a.m. to 4 p.m. Full day, interactive discussion with instructor, Dr. Peter Rothe. Useful for university departments, traffic safety organizations and injury-related and social science researchers. Topics include fieldwork methods, research verification principles, writing strategies and theoretical and practical ethics in data collection and interpretation. Workshop cost \$130.00, including workshop fees, text books, lunch and refreshments. Limited registration still available. Location: ACICR Boardroom, 4075 RTF.

**Centre for Research on Literacy** Dr. Judy Lupart, Canada Research Chair in Special Education, Department of Educational Psychology, will present "Gender Differences in Student Achievement and Career Prospects: Choice or Chance?" 12:30 - 1:30 p.m. in 651a Education South. As a light lunch is catered, please RSVP to Paula Kelly, Centre for Research on Literacy, at 492-4250 ext. 292 or [paula.kelly@ualberta.ca](mailto:paula.kelly@ualberta.ca)

**Department of Biological Sciences** Gordon Chan, Experimental Oncology, Cross Cancer Institute, speaks on "Mitotic checkpoint regulation of chromosome segregation," at 3:30 p.m. in Room M-149 of the Biological Sciences Building. Host: John Bell. Web site: <http://www.biology.ualberta.ca/courses/genet605/index.php?Page=399>

**Department of Biological Sciences** Department of Biological Sciences Biology 631 Ecology Seminar Series. Chris Sturdy, Department of Biological Sciences, University of Alberta, presents a talk on "Vocal Perception in the Paridae: Proximate Mechanisms and Adaptive Value." 12:00 noon in Room M-149 of the Biological Sciences Building. Web site: [www.biology.ualberta.ca/courses/biol631/](http://www.biology.ualberta.ca/courses/biol631/)

**Department of Philosophy** Professor Peter Schouls, Department of Philosophy, University of British Columbia, will speak on "Our Pervasive Cartesian Heritage." Time: 3 p.m. Location: Humanities Centre 4-29.

**Department of Music** Faculty & Friends. Marnie Giesbrecht, organ. An evening of French and German Nineteenth-Century Organ Music. Works by Schumann, Liszt, Reger, Franck, Widor and others. Convocation Hall. Admission: \$12/adult, \$7/student/senior. 8:00 p.m.

**Department of Public Health Sciences** Dr. Phil Fedorak, Department of Biological Sciences, will present: "Applying some chromatographic methods to study naphthenic acids biodegradation." 2:00 p.m. Location: 10-120 Clinical Sciences Building.

**University Teaching Services** Susan Hannon, Biological Sciences, facilitates a discussion on "Maintaining Academic Productivity while Supervising Graduate Students". Balancing teaching, research, and administrative responsibilities while acting as a graduate student supervisor is quite the challenge. This session focuses on some strategies that have allowed one academic to remain productive while addressing the demands of being a graduate student supervisor. noon to 1:00 p.m. CAB 219. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

MAR 01 2003

**Career and Placement Services (CaPS)** Workshops for Ag/For/Home Ec Students. Find out what CaPS learned from recent surveys about what employers expect on your resume and during an interview. Pre-register at CaPS, 2-100 SUB. Location: CaPS Classroom; 4-02 SUB. Web site: [www.ualberta.ca/caps](http://www.ualberta.ca/caps)

**Department of Music** University of Alberta Concert Choir Fundraising Extravaganza! Debra Cairns, conductor. Fort Edmonton Park. General Admission: \$15. 12:00 noon. For more information call 492-2384.

**Education of Black students in University: The Canadian Experience** From 11 a.m. to 5:30 p.m. Lunch provided. Morning (11 a.m.-12 noon) is focused on high school students to introduce them to campus. Afternoon features a panel discussion with Dr. Gamal, Dr. Jennifer Kelly, Ernest Khalema and Oliver Kamau. We will be engaging in a much-needed discussion about current issues facing black students in university. The three main themes will be racism, opportunities and economics. We will be screening a movie "Speak it, from the heart of black Nova Scotia." As well as an interactive session on anti-racism. Location: Ed Bldg 2-115. Web site: [www.sacch.50megs.com](http://www.sacch.50megs.com)

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MAR 02 2003

**Science Sunday for Kids** 12 noon - 4:00 p.m. Admission by donation. Enjoy an afternoon of science fun for the whole family! Unearth the mysteries of rocks and minerals. Discover the wonders of dinosaur fossils. Learn about amazing animal adaptations. Recommended for children ages 5 and up. All children must be accompanied by an adult. Location: Earth Sciences Building. Web site: [www.museums.ualberta.ca](http://www.museums.ualberta.ca)

**Department of Music** Master of Music Recital. Alycia Au, violin. Convocation Hall. Free admission. 3:30 p.m.

MAR 02 - 08 2003

**Career and Placement Services (CaPS)** Workshops for Arts Students. From Resume Writing to Career Selection for Arts students, you'll find out what employers look for on your resume & during the interview and learn more about yourself and your career options. Pre-register at CaPS, 2-100 SUB, today! Location: Rm; 4-02 SUB; 2-100 SUB. Web site: [www.ualberta.ca/caps](http://www.ualberta.ca/caps)

MAR 03 2003

**Department of Biological Sciences** Department of Biological Sciences Botany 600 Seminar Series. Kiersten Stead, Department of Biological Sciences, University of Alberta presents a seminar on "Gene silencing in plants I," at 12:00 noon in Room M-149 of the Biological Sciences Building. Web site: [www.biology.ualberta.ca/courses/bot600/](http://www.biology.ualberta.ca/courses/bot600/)

**Department of Cell Biology** Recruit Candidate. Morris Maduro, PhD, Postdoctoral Fellow, Department of Molecular, Cellular & Developmental Biology, University of California, will present seminar "The Gene Regulatory Network of the *C. elegans* Mesoderm." From 9:30 - 10:30 a.m., 5-10 Medical Sciences Building. Web site: [www.ualberta.ca/cellbiology](http://www.ualberta.ca/cellbiology)

**Department of Sociology** The U of A Research Data Centre: Accessing Statistics Canada Micro-data Sources. Harvey Krahn, Professor of Sociology, and Chuck Humphrey, U of A Data Librarian, present and discuss resources of the Research Data Centre on campus – a high-tech, highly-secure computer lab in Rutherford Library, where quantitative researchers can access confidential Stats Can data sets under rigorous conditions. 3:30 - 5:00 p.m. Location: Tory 5-15.

**Department of Music** Music at Noon, Convocation Hall Student Recital Series featuring students from the Department of Music. Free admission. 12:10 p.m.

**Department of Music** Grant MacEwan College and University of Alberta Jazz Bands. Raymond Baril and Tom Dust, Directors. Salute to the Bands. A Tribute to the Great Swing Bands of the 1930s and 1940s. Works by Ellington, Shaw, Goodman, Miller and others. 8:00 p.m. Convocation Hall.

**University Teaching Services** Cheryl Whitelaw, Academic Technologies for Learning, presents "Using the Power of the Force: One of the effects of a hybrid or blended learning environment is how it can shift a student's learning experience from instructor-centred to learner-centred. Despite an apparent de-emphasis of the instructor's role in a learner-centred environment, instructor presence can make or break the students' learning experience. This session reflects on the concept of instructor presence and its importance in learning environments to enhance learning. 3:00-4:30 p.m. CAB 243. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

MAR 04 2003

**Centre for Health Promotion Studies** Ruth Wolfe and Yvonne Chiu will present a seminar entitled "The Role and Value of Evaluation in Community-Based Action Projects". This seminar will share insights and challenges from various health promotion initiatives in immigrant and refugee communities. 12:00-1:00 p.m. Location: Corbett Hall, Room 3-26. Web site: [www.chps.ualberta.ca](http://www.chps.ualberta.ca)

**Department of Political Science** Henk Overbeek, Vrije Universiteit Amsterdam, presents the 2003 Annual Lecture in Political Science, "Class, Hegemony, and Global Governance: A Historical Materialist Perspective." 3:30 p.m. Location: Business 1-9.

**Department of Music** Trombone Celebration with The University of Alberta Trombone Ensemble and guests. John McPherson and Christopher Taylor, Directors. Free admission. 8:00 p.m. Convocation Hall.

**University Teaching Services** Karen Kovach, Academic Support Centre, and Julie Crockett, Educational Psychology, facilitate this session on "Teaching for Successful Learning". This presentation focuses on cognitive learning principles that assist students in classes and labs to learn the content required for their courses. Learning and the practice of learning skills will be emphasized. Come prepared to practice the relevant skills. 3:30-5:00 p.m. CAB 281. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

MAR 05 2003

**Department of Public Health Sciences** PHS Colloquium & Grand Rounds. Time: 12:00 Noon - 12:50 p.m. Dr Chris Le, Associate Professor: "Arsenic Exposure and Health Effects." Location: 2-117, Clinical Sciences Building. Web site: [www.phs.ualberta.ca](http://www.phs.ualberta.ca)

**University Teaching Services** Kevin Moffitt, Technology Training Center, presents on "PowerPoint Animations". Animations can enhance or detract from the message being given. This hands-on session works with the possibilities for animation in a PowerPoint presentation as well as touching on the problems associated with excesses. 4:30-5:30 p.m. Location: Technology Training Centre. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

**Experience Africa** Event sponsored by International Centre. Experience Africa by participating in a 6-week cultural study program at the University of Natal, South Africa from June 23 - August 1. Participate in development projects and tour a traditional Zulu homestead in addition to course work. Information Session Wednesday March 5 at 12:00. Location: International Centre.

MAR 06 2003

**Brazilian Summer** Event sponsored by International Centre. Learn Portuguese in Brazil, the land of the Amazon and Carnival! Participate in a four-week Portuguese Language program from July 8 - August 8 at the Pontifica Universidade Catolica do Rio de Janeiro. Information session March 6 at 3:30 p.m. Location: International Centre.

**Summer in Europe** The University of Alberta offers a four-week European Study program at the Universite Catholique de Lille, France. Choose from June 2-27 or July 2-30. Information Session Thursday March 6 at 12:30 p.m. Location: International Centre.

**Department of Music** Piano Masterclass with Joachim Segger (Adjunct Professor). Free admission. 3:30 p.m. Convocation Hall.

**Department of Music** Master of Music Recital Eleni Pappa, piano. Free Admission. 8:00 p.m. Convocation Hall.

**University Teaching Services** Sarvesh Logsetty, Surgery, presents "The Quiz Show". Engaging students in the learning process is the focus of this workshop. Participants will experience and discuss an innovative teaching technique. From 3:30-4:30 p.m., Education South 3-15. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

MAR 07 2003

**Department of Biological Sciences** Department of Biological Sciences Biology 631 Ecology Seminar Series. Susan Hannon, Department of Biological Sciences, University of Alberta, presents "Source sink dynamics of American redstarts in an agricultural landscape." 12 noon in Room M-149 of the Biological Sciences Building. Web site: [www.biology.ualberta.ca/courses/biol631/](http://www.biology.ualberta.ca/courses/biol631/)

**Department of Philosophy** Professor Patricia Kitcher, Department of Philosophy, Columbia University, will speak on "Kant's Argument for the Categorical Imperative." Time: 3 p.m. Location: Humanities Centre 4-29.

**Department of English** John Weaver presents "Learning from Postcolonial Studies: Criminal Trials as Texts." 12:00 noon. Location: HC L-3.

**Health Ethics Seminars** Event sponsored by John Dossetor Health Ethics Centre. Bioethics Week Event. Time: 12:00 - 1:00 p.m. Title: "Why Nurses Should Not Be Patient Advocates" Presenters: Glenn Griener, PhD Associate Professor, John Dossetor Health Ethics Centre and Dept of Public Health Sciences, Faculty of Medicine and Dentistry and Dept of Philosophy, Faculty of Arts, University of Alberta and Jennifer Welchman, PhD, Associate Professor, Department of Philosophy, Faculty of Arts, University of Alberta. Location: Room 231, Medical Sciences Building. Web site: [www.ualberta.ca/bioethics](http://www.ualberta.ca/bioethics)

**Spanish in Mexico** Event sponsored by International Centre. Un, dos, tres...learn Spanish in Mexico! Participate in a 4-week Spanish Language and Culture program at the Universidad Autonoma de Guadalajara. Choose from June 16-July 11 or July 14-August 8. Information Session Friday March 7 at 2:00 p.m. Location: International Centre.

**University Teaching Services** Paula Blashko, Julie Crockett, Teddi Doupe, Danielle Fullerton, and Sheila Manohar, Educational Psychology, present "What We Learned About Teaching: the Hard Way". The panel, composed of instructors teaching in a multi-sectioned course, share their experiences of teaching small groups for the first time. Noon-1:30 p.m., Education South, 3-15. Web site: [www.ualberta.ca/~uts](http://www.ualberta.ca/~uts)

MAR 09 2003

**Department of Music** Master of Music Recital. Julie Amundsen, cello. Free admission. 4:00 p.m. Convocation Hall.



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# positions

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## CO-OPERATIVE EDUCATION CO-ORDINATOR SCHOOL OF BUSINESS

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An undergraduate or graduate degree in Commerce or Business and a minimum of five years' work experience are required. Strong interpersonal, communication, organizational and computing skills are necessary. Experience in the areas of training, teaching, career planning and placement is an asset. Applicants will be required to travel to work sites to monitor students on the job.

Salary range is \$41,000 - \$67,000 depending on qualifications. Interested applicants should apply to the attention of Claudette deBruijn, Director, Office of Placement Services and Business Co-operative Education, 2-21 School of Business, University of Alberta, Edmonton, AB T6G 2R6 by March 7, 2003.

## VETERINARIAN UNIVERSITY OF ALBERTA

The University Veterinarian provides leadership and executive support in implementing all University of Alberta policies on the ethics and use of animals for teaching, research and testing. Acting as Executive Secretary of the University Animal Policy and Welfare Committee (UAPWC), the University Veterinarian provides support for the three faculty committees for animal policy and welfare within the university and acts as an effective liaison between them, the UAPWC and the Office of the Vice-President (Research). The University Veterinarian is the primary contact for the university with the Canadian Council on Animal Care (CCAC) and is responsible for many other related duties, including:

- Develops training programs and facilitates widespread access to information
- Is involved with many committees dealing with protocol review processes, biosafety, biosecurity, facility repair and renovation, and issues management
- Co-ordinates all CCAC site visits
- Plays a key role in communication with external organizations and the general public on animal welfare matters at the university

Holds authority for decisions concerning the day-to-day application of animal welfare policy and procedures at the university

The University Veterinarian is a continuing Faculty Service Officer (FSO) level IV position and the 2002/03 salary range for the position is \$72,990 - \$91,285. The position is available as of July 1, 2003.

Applicants must possess a degree in veterinary medicine or equivalent. Being nationally recognized in professional organizations involved in the use of animals for teaching and research would be desirable. Also desirable would be: experience in university administration and government relations, knowledge of applicable CCAC guidelines and Government of Alberta legislation, an ability to lead and facilitate discussions on ethical issues, and an aptitude for developing training programs and communicating new information to researchers and the public.

Applications, supported by a curriculum vitae and the names of three referees, should be submitted on or before the deadline of March 31, 2003 to:

Dr. Bill McBlain  
Associate Vice-President (Research)  
University of Alberta  
3-5 University Hall  
Edmonton, Alberta T6G 2J9  
[bill.mcblain@ualberta.ca](mailto:bill.mcblain@ualberta.ca)  
Tel.: (780) 492-5320  
Fax: (780) 492-3189

## CHAIR, DEPARTMENT OF HUMAN ECOLOGY FACULTY OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Applications and nominations are invited for the position of Chair, Department of Human Ecology in the Faculty of Agriculture, Forestry, and Home Economics. The competition is limited to candidates internal to the University of Alberta.

The department is one of four in the Faculty and has close linkages with other units on campus particularly Arts, Education and Health Sciences Faculties. The department is a multidisciplinary one offering graduate degrees in Family Ecology and Practice and Textiles and Clothing and undergraduate degrees in the areas of Family and Consumer Studies, Community Studies, and Textiles and Clothing. The department has 12 faculty members with an annual operating budget of approximately \$1.5 million and approximately \$1 million in grant and trust funds. Additional information about the faculty and the department is available at [www.afhe.ualberta.ca/](http://www.afhe.ualberta.ca/) with links to all the departments in the faculty and university web pages.

The Chair will bring vision, leadership ability, and strong strategic planning, organizational and management skills. The successful candidate will be a team builder with good communication skills and an open administrative style.

The Chair will be a strong advocate for both the department and faculty, including playing a leadership role in acquiring external resources through identification of, and active involvement in, developing new funding opportunities. Additionally, the Chair will work to cross boundaries and strengthen collaborative relationships with other organizations and associations, both on and off campus, including provincial and federal government granting agencies. The Chair will have a strong research program of national and preferably international renown in an area related to the department's principal areas of responsibility. The successful candidate will also have a superior record of teaching and graduate student supervision and will promote excellence across the department's primary mandates of teaching, research and community service.

Applications or nominations, including a curriculum vitae and a two-page vision statement, should be sent to Dr. Ian Morrison, Dean, Faculty of Agriculture, Forestry, and Home Economics, University of Alberta, Edmonton, Alberta, T6G 2P5. Selection will commence March 14 with the expected appointment date being July 1, 2003.

## INTERNATIONAL RELATIONS OFFICER (ASIA-PACIFIC) UNIVERSITY OF ALBERTA INTERNATIONAL

University of Alberta International (UAI) plays a pivotal role in the international activities of the University of Alberta. UAI works with students and faculties in pursuing innovative learning, research and collaborative opportunities which include assisting students in meeting their international goals, building academic partnerships and engaging in programs with industries, governments and funding agencies.

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**Officer (Asia-Pacific).**

Reporting to the director, International Relations, the International Relations Officer (IRO) maintains relations and contacts key to furthering the strategic objectives of the University of Alberta in the Asia-Pacific region. The IRO (Asia-Pacific) is one of three IROs working with UAL, each representing various regions of the world.

**Responsibilities include:**

Co-ordinating official visits and missions to and from the Asia-Pacific region, including communicating with senior administration and faculty representatives about mission/visit objectives, preparing itineraries and briefing materials, booking travel arrangements, and completing follow-up.

Managing networks of contacts related to the university's long-term partnerships and goals for the region.

Providing advice and contact information to faculties and administrative units within the university to assist in preparing proposals for funding and/or developing formal partnership agreements in the region.

Researching regional issues related to higher education and monitoring the political and economic activities of the region as they may affect University of Alberta interests and/or objectives.

Working with the director, International Relations, the associate vice president (international), and other senior administrators to co-ordinate the university's strategic goals in the region.

Applicants must have post-secondary education supplemented with 2 – 3 years of related practical experience. The successful candidate will require excellent communication skills with the ability to

work in cross-cultural settings. Fluency in a language of the region (Mandarin, Cantonese, Japanese, or Korean) is required. Strong research, analytical and writing skills are necessary. Experience in the co-ordination of overseas missions and ability to handle complex logistical planning preferred. Computer literacy in word-processing and databases a must. Travel will be required. Candidates must also have a valid driver's license.

This full-time Administrative/Professional Officer position has a salary range of \$38,900 – \$63,000 commensurate with qualifications and experience.

Appointment will be for a one-year term with extension subject to performance and funding availability.

Letters of interest, including a résumé and names of three professional references should be submitted by Friday, February 28 to Marjorie Cayford, Executive Officer, University of Alberta International, 1204 College Plaza, 8215 – 112 Street, Edmonton, Alberta, T6G 2C8. Fax: 780-492-1488. E-mail: marj.cayford@ualberta.ca. Applicants are thanked in advance for their interest, however only those candidates selected for an interview will be contacted.

**PROJECT MANAGER  
DEPARTMENT OF HUMAN ECOLOGY**

Applications are invited for the position of Project Manager for a five-year multi-disciplinary, multi-site program of research based in the Department of Human Ecology at the University of Alberta, funded under the Major Collaborative Research Initiatives program of the Social Sciences and Humanities Research Council (SSHRC). The main purpose of the research program, titled Hidden Costs,

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**Dr James Gosling**

Chief Scientist, Java, Vice President and Fellow, Sun Microsystems

James Gosling received a BSc in Computer Science from the University of Calgary in 1977 and a PhD in Computer Science from Carnegie-Mellon University in 1983. He is currently a Vice President and Fellow at Sun Microsystems. Among his many accomplishments, he is perhaps best known for leading the original design and implementation of the Java programming language.

**Dr David Jefferson**

Computer Scientist, Lawrence Livermore National Laboratory

David Jefferson received his BS in Mathematics from Yale University, and his PhD in Computer Science from Carnegie-Mellon University in 1980. He spent nearly a decade in Silicon Valley at DEC, Compaq, and Hewlett-Packard Laboratories in Palo Alto doing Internet-related research, and became a leading expert in electronic and Internet voting security, and now works at Lawrence Livermore National Laboratory, conducting research in scalable parallel computation.

**Dr William R. Pulleyblank**

Director, IBM Deep Computing Institute

William R. Pulleyblank was a professor at the University of Calgary from 1974 to 1981 and at the University of Waterloo from 1982 to 1990. He is currently Director of Exploratory Server Systems in IBM's Research Division and the Director of the IBM Deep Computing Institute, where he coordinates activities in the field of deep computing both within IBM and with industry, academic, and government research partners around the world.

**Dr Richard E. Taylor**

Professor, Stanford University, Nobel Laureate

Richard Edward Taylor was born in Medicine Hat, Alberta, and studied physics at the University of Alberta in Edmonton, receiving a BSc degree in 1950 and MSc in 1952. His PhD was granted by Stanford in 1962. He worked at Stanford first as a staff member, joined the faculty in 1968, and was appointed associate director of research for the Stanford Linear Accelerator Center (SLAC) in 1982. His experiments in electron scattering, and investigations of the internal structure of the proton and neutron, have resulted in several fellowships and prizes, including the Nobel Prize in Physics in 1990.

**Dr Eric Manning**

Professor, Computer Science, University of Victoria

Dr Eric Manning is a professor in the Department of Computing Science at the University of Victoria. In 1965, he completed a PhD in Electrical Engineering from the University of Illinois, for work on self-diagnosis of hardware faults in digital processors. He was a founding director of the Computer Communications Networks Group and a founding director of the Institute for Computer Research, University of Waterloo. From 1982-1986, he was a Member of Council of the Natural Sciences and Engineering Research Council of Canada.

"We are evaluating Alberta's opportunities in the information technology sector, including the longer term initiatives required to develop a vibrant, sustainable research community that will support further economic development," said Dr William Pulleyblank, chair of the new advisory council and a former Albertan. "Information technology will play a critical role in all sectors of society and there are many opportunities within Alberta that we will investigate."

iCORE was established in October 1999 by the Government of Alberta to foster world-class university-based research that supports the ICT sector. The mission of the Alberta Informatics Circle of Research Excellence (iCORE) is to attract and grow a critical mass of exceptional researchers in the field of informatics, that is, areas of computer science, electrical and computer engineering, physics, mathematics and other disciplines related to information and communications technology (ICT). iCORE invests in people – the highest caliber research scientists who work on fundamental and applied problems in informatics. Around these leaders, world-class research teams are developed.

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- establishing and fostering communication among research team members across sites and individual research projects, and with community partners and other stakeholders
- co-ordinating research team meetings
- management of the program budget
- ensuring that co-investigators have the resources and supports required to carry out the planned research activities
- assisting investigators with drafting and editing publications
- supervision and management of program staff (administrative staff, post-doctoral fellows and research assistants)
- liaison with other management, technical and support staff

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The ideal candidate will have:

- minimum masters degree in social science (eg. sociology, gerontology, health sciences, human ecology)
- previous experience managing multi-site, multidisciplinary research; knowledge of aging and/or disability preferred
- a solid understanding of quantitative and qualitative research methods
- superior interpersonal and organizational abilities
- excellent written and oral communication skills and computer proficiency
- knowledge of university policies and functions relative to research administration preferred

This is a full-time, trust-funded position for up to five years, starting February 2003 or when a suitable candidate is found. Salary commensurate with experience; range \$45,000 - \$52,000 annually.

Closing date is February 28, 2003, or until a suitable candidate is found. Please send a curriculum vitae and covering letter to:

Janet Fast, Project Director  
Hidden Costs, Invisible Contributions Research Program  
Department of Human Ecology  
302 Human Ecology Building  
University of Alberta  
Edmonton, AB, T6G 2N1  
[janet.fast@ualberta.ca](mailto:janet.fast@ualberta.ca)  
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**MCKERNAN,** near U of A, executive two storey, three bedroom. Finished basement. Fully furnished. \$1,400/month. Immediate. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441, 951-0672.

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# notices

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## 2003-2004 KILLAM ANNUAL PROFESSORSHIPS

Applications for the 2003-2004 Killam Annual Professorships are now available. All regular, continuing, full-time academic faculty members who are not on leave during 2003-2004 are eligible to apply. Deans, Department Chairs and other senior University administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate Deans and Associate Department Chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty in any given year. Each Killam Annual Professor shall be presented with a \$3,500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities, presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be substantial contributions to the community beyond the university, as evidenced by community involvement directly linked to the applicant's university responsibilities

and activities.

Awards are tenable for 12 months commencing 1 July 2003. The completed application must be received at the Office of the Vice-President (Research), 3-7 University Hall, by 4:30 p.m., Friday February 28, 2003. The awardees shall be announced by early May, and they will be formally recognized at the Killam Luncheon in the autumn of 2003.

Applications and further details are available on the home page of the Vice-President (Research) at: <http://www.ualberta.ca/VPRESEARCH/>

Please contact Annette Kujda, Administrative Assistant, Office of the Vice-President (Research) at extension 28342 or email: [annette.kujda@ualberta.ca](mailto:annette.kujda@ualberta.ca) if you have any questions.

## THE DEPARTMENT OF SOCIOLOGY ANNOUNCES A CALL FOR RESEARCH PROPOSALS

The Department of Sociology invites research proposals to carry out studies on impaired driving or other related social policy problems such as chronic alcoholism, traffic safety, etc.

Interest from an endowment made by REID (Research and Education on Impaired Driving) will be used to fund the successful research proposal(s). The maximum amount available this round is \$13,000, which may be used to fund one research project or

divided between two (or more) smaller projects.

The competition is open to any University member conducting research relating to impaired driving or other related social policy problems such as chronic alcoholism, traffic safety, etc. It will be adjudicated by a panel of five members (three from the University and two from the contributing organization)

Proposals should be submitted to:

Dr R. Sydie, Chair  
Department of Sociology  
University of Alberta  
5-21 HM Tory Building  
Edmonton AB T6G 2H4

The competition will close on March 15, 2003. If you have any questions, please contact Fay Sylvester by e-mail: [fay.sylvester@ualberta.ca](mailto:fay.sylvester@ualberta.ca)

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# 2003 Workshops

### Introduction to learning object repositories

This workshop will outline the role of learning object repositories in educational settings, who is developing them, how to access them and how to populate them.

Wednesday, February 26  
8:30 am - 4:00 pm  
587 BioSciences, University of Calgary

### Effective teaching for students at remote sites

Professors and high school teachers from Calgary, Edmonton and Lethbridge will share their experiences using video, audio and the web to teach students at a distance.

Thursday, March 13  
9 - 11 am  
587 BioSciences, University of Calgary  
ETLC 6-060, University of Alberta

### Arranging and adapting lectures for web casting

Whether you are planning a lecture series or delivering a course, web casting can provide videos of the lecture via the web to workstations around the world.

Thursday, March 20  
1 - 2 pm  
T107, Mount Royal College  
Room H 003, NAIT

### Research collaboration techniques

This panel of experienced inter-institutional collaborators will discuss what works and what doesn't using technology to collaborate over distance.

Thursday, March 27  
1 - 3:30 pm  
587 BioSciences, University of Calgary  
ETLC 6-060, University of Alberta

### Document-sharing in long-distance collaborations

This forum will field your queries about which document-sharing tools are best suited to your specific task or research project.

Tuesday, April 8  
1 - 2 pm  
525B BioSciences, University of Calgary  
3 - 105 Education North, University of Alberta

### Tools for collaborating with Alberta and international colleagues

Cyberports in Calgary and Edmonton can be used to video conference and share documents between the two cities, or to link with compatible facilities around the world.

Tuesday, April 15  
3 - 4:30 pm  
525B BioSciences, University of Calgary  
3 - 105 Education North, University of Alberta

### Grid applications in Canada

This two-day forum will bring together researchers, technicians and students interested in grid computing applications. Workshops and sessions will enable participants to get involved in advancing and grid computing projects in Canada.

Thursday, May 8 and Friday, May 9  
Telus Centre, University of Alberta  
Registration fee: \$75

### Next-generation research network in Alberta

This workshop is designed for network technicians and researchers interested in configuration and connection details for maximizing the new lightpath potential of Alberta's research network, NeteraNet.

Thursday, June 5  
1:30 - 2:30 pm  
587 BioSciences, University of Calgary  
231 CEB, University of Alberta

### To Register

Deadline: one week prior to courses

Fees: Free of charge to Netera members except the May 8 - 9 grid event (\$75)

Contact: Tara Richards, [tara@netera.ca](mailto:tara@netera.ca) or (403) 210-5489

*These workshops are produced in collaboration with Netera members. Netera is grateful for the support and participation of the Learning Commons at the University of Calgary, the Faculty of Education at the University of Alberta, eduSourceCanada project partners, Computing and Network Services at the University of Alberta, the University of Lethbridge, Mount Royal College and NAIT.*





Medical mission with many

# rewards

## *South American tour makes a difference for patients and medical team*

By Richard Cairney

It must have looked a little suspicious: at the end of a 4,000-km flight, 25 Canadians disembarked from an airplane, then packed their luggage, about 70 hockey equipment bags, into the back of a large truck.

Hockey? In Quito, Ecuador? Not likely.

While our national game might turn out to be interesting to Ecuadorans, the Canucks had another purpose: for the fourth time, a team of Edmonton-based orthopedic surgeons arrived in the South American nation on a humanitarian mission, to perform much-needed surgeries on patients who would otherwise suffer without.

Called the Canadian Association of Medical Teams Abroad, the Edmonton-based group performed dozens of operations—replacing hips in adult patients, operating on younger patients with hip dysplasia and clubfeet, and training medical staff at a nearby university.

Dr. Marc Moreau, the associate dean of admissions with the U of A's Faculty of Medicine and Dentistry, and Dr. John McIvor, a professor of surgery, teamed up to perform 19 surgical procedures on 14 patients in five days. Both are pediatric orthopedic surgeons with the Stollery Children's Centre at the University of Alberta Hospital. Dr. Greg O'Connor and Dr. Jim Mahood performed 18 hip replacements on adult patients.

"This is really rewarding, in that you have people you see and operate on who are so gracious," said McIvor, who was making his second trip with CAMTA, an initiative funded by private individuals and firms, service clubs and foundations.

"Sometimes we don't really appreciate what we have here. I consider myself very fortunate to live in Canada and to be able to give something back."

The work, Moreau said, was demanding. In Edmonton, he can typically expect, at most, to work in the operating room two days a week. In Quito, they worked five days in a row in a hot and poorly equipped operating room.

McIvor said the absence of familiar technology—such as fluoroscopy equipment to provide surgeons with quick, multiple X-ray images—made the surgeries more challenging. "This was my first time working without it," McIvor said. "If I was just starting in practice, I wouldn't have been willing to try it."

"You are using your basic skills," Moreau said. And at that level, surgeons need to draw on everything they know. "Dr. McIvor and I have been working together for 20 years now. You have to rely on your experience."



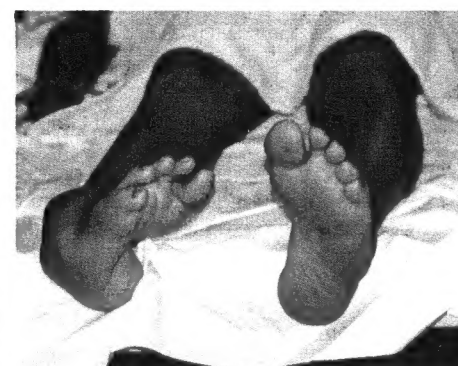
And sometimes you just have to take things as they come. Moreau says one young patient embodied both the challenge and reward of the trip. The eight-year-old boy had fractured his arm a few days before the medical team arrived in Quito. When McIvor and Moreau examined the boy, they found, to their dismay, that he'd also ruptured an artery.

"The worst thing about the trip was discovering this boy had a ruptured artery, and the best thing about it was that we were able to go ahead and fix it, even though we aren't vascular surgeons."

On their first day, the team held a clinic for more than 100 prospective patients, then established a line-up for surgery. Some of the patients have been booked for next year.

McIvor summed up the feelings of the team well when he announced he's looking forward to the return trip: "I found it personally really rewarding," he said. "And I'm interested in continuing on." ■

The Edmonton-based Canadian Association of Medical Teams Abroad recently returned from its fourth trip to Ecuador. The 25-member group performed 18 hip replacements on adults and performed 19 surgical procedures on 14 younger patients. They also brought modern expertise to the capital of Quito, working with the University of San Francisco to train doctors, medical students and staff.



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